Government of Saskatchewan

Statistical Supplement for the Year Ending December 31, 1988

Saskatchewan
Health

Vital Statistics
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Regina, Saskatchewan
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Department of Health

To The Honourable Sylvia Fedoruk,
Lieutenant Governor of Saskatchewan.

May It Please Your Honour:

We beg to present herewith, for your consideration, the annual report on Saskatchewan vital statistics for the calendar year 1988.

Respectfully submitted,

George McLeod,
Minister of Health.

Department of Health

To The Honourable George McLeod,
Minister of Health.

Sir:

I have the honour to forward herewith the annual report on Saskatchewan vital statistics for the calendar year 1988.

Respectfully submitted,

Dr. Bill MacDonald
Deputy Minister of Health.

Foreword

The Saskatchewan Vital Statistics Annual Report 1988 has been prepared subsequent to the Interim Report on Saskatchewan Vital Statistics for the Calendar Year 1988, which was tabled in the Legislative Assembly on March 22, 1989. The Interim Report is based on place of occurrences in Saskatchewan regardless of place of residence. This Annual Report is based on occurrences to Saskatchewan residents regardless of where they took place.

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Terms and Definitions

A summary of symbols, definitions, and the method of computing rates used in this report are given below.

Symbols:

n.a. figures not available
— nil or zero

Definitions:

Population — unless otherwise indicated resident population as enumerated in census years or estimated for intercensal years.
— 1972-1975, 1977-1980, 1982-1985, 1987, 1988 — June 1 intercensal estimates.
— 1921-1971, 1976, 1981, 1986 — census or revised estimates.

Births — unless otherwise indicated, infants born alive, i.e. excluding stillbirths.

Stillbirths — unless otherwise indicated, foetal deaths of 20 or more weeks' gestation.

Deaths — unless otherwise indicated, exclude stillbirths.

Infant deaths — deaths under 1 year of age.

Neonatal mortality — deaths under 28 days (4 weeks) of age.

Maternal mortality — deaths due to delivery and complications of pregnancy, childbirth and the puerperium (Categories 630-676 International List).

Perinatal mortality — foetal deaths of 20 or more weeks' gestation plus infant deaths under 7 days (1 week) of age.

Natural increase — excess of births over deaths.

Crude rates — birth, marriage, death and natural increase rates per 1,000 population.

Age-specific fertility rates — birth rate per 1,000 women in the respective age period.

Total fertility rates — sum of female age-specific fertility rates, multiplied by 5.

General fertility rates — birth rate per 1,000 women 15-49 years.

Gross reproduction — average number of live daughters that would be born to a hypothetical female birth cohort if subjected to current age-specific fertility rates, and assuming that mortality before age 50 is zero.

Terms and Definitions (Continued)

Total births — live births and stillbirths.

Years of Life Lost — number of years between age at death and mean life expectancy for that age.

Age — complete ages in years, months, etc.

Average age — arithmetic mean.

Median age — age above and below which half of the total events occur.

Rates

(unless otherwise indicated, computed as follows)

Live births:	per 1,000 population.
Stillbirths:	per 1,000 live births.
Deaths:	per 1,000 population.
Infant:	per 1,000 live births.
Neonatal:	per 1,000 live births.
Maternal:	per 1,000 live births.
Perinatal:	per 1,000 total births.
Causes of death All causes:	per 100,000 population.
Infant:	per 1,000 live births.
Marriages:	per 1,000 population.
Divorces:	per 100,000 population.
Natural increase:	per 1,000 population.

Notes:

1. Causes of death are coded according to the 9th 1975 Revision of the International Classification of Diseases, Injuries and Causes of Death, which was put into effect on January 1, 1979.
2. Rates and percentages may not add to 100.0 due to rounding.
3. Inquiries about this publication should be addressed to:

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Saskatchewan Health
1919 Rose Street
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Introduction

Population

At the turn of the century, the first heavy settlement took place in Saskatchewan. This was a period of record migration from overseas, supplemented by a massive east-west movement on the continent itself. This trend, however, reversed during the 1930's. Low fertility and low mortality prevailed and the migration of people began in the opposite direction. After World War II, the fertility rate reversed from low to moderate while the mortality rate remained low. During the 1950's and 1960's, losses in population continued but the higher rate of natural increase counterbalanced these losses. Between 1968 and 1974, the population declined until the 1974 population was less than that of 1961. The population has since shown a marked increase.

Year	*Population (000's)*[1]
1921	757
1931	922
1941	896
1951	832
1961	925
1971	926
1981	968
1988	1,011

[1] *Source — Statistics Canada.*

During the past 30 years, the proportion of older people (65 years and over) has been increasing both in Canada as a whole and in Saskatchewan.

Percentage Distribution of the Total Population

	Canada		*Saskatchewan*	
Age	*1983*	*1988*	*1983*	*1988*
0-19	30.6	28.4	33.3	31.9
20-44	40.3	41.2	36.0	37.4
45-64	19.1	19.3	18.4	17.6
65+	10.0	11.1	12.3	13.2

Percentage Distribution by Sex, Saskatchewan

Year	*Male*	*Female*	*Males per 100 Females*
1921	54.6	45.4	120
1931	54.2	45.8	119
1941	53.3	46.7	114
1951	52.2	47.8	109
1961	51.8	48.2	108
1971	50.8	49.2	103
1981	50.2	49.8	101
1988	50.0	50.0	100

Births

During the 1920's and 1930's the birth rate was characterized by a declining trend and reached a record low in the late 1930's. Gradually rising during the war years, the rate turned sharply upward, culminating in the peak of 1947. After a dip in the late 1940's, a steady rise occurred until a new peak was reached in 1954. The birth rate had been decreasing until it reached its new record low of 16.4 in 1973. The year 1974 indicated a slight increase with the birth rate at 16.8, and by 1982 the rate had risen to 18.1. Since then the birth rate had gradually been decreasing and by 1988 the rate had fallen to 16.6 per 1,000 population.

Live Birth Rates per 1,000 Population, Canada and Provinces, 1988[1]

	Rate
Canada	14.5
Newfoundland	13.2
Prince Edward Island	15.4
Nova Scotia	13.8
New Brunswick	13.5
Quebec	13.0
Ontario	14.6
Manitoba	15.7
Saskatchewan	16.6
Alberta	17.5
British Columbia	14.4

[1] *Source — Statistics Canada.*

Introduction (Continued)

Stillbirths are near an all-time low.

Stillbirth Rates per 1,000 Live Births, Canada and Provinces, 1988[1]

	Rates Weeks Gestation	
	20+	*28+*
Canada	6.1	3.8
Newfoundland	5.3	3.3
Prince Edward Island	8.6	5.6
Nova Scotia	5.7	3.4
New Brunswick	4.3	3.6
Quebec	4.7	3.0
Ontario	6.7	4.3
Manitoba	5.8	3.7
Saskatchewan	5.6	3.7
Alberta	7.2	3.9
British Columbia	6.9	3.8

[1] *Source — Statistics Canada.*

Deaths

The current crude death rate of 8.0 per 1,000 population in Saskatchewan is higher than the 1921 crude death rate (7.4). Since 1921, the average age of decedents has more than doubled. Saskatchewan's crude death rate is higher than that for Canada as a whole (8.0 and 7.3 respectively).

Death Rates per 1,000 Population, Canada and Provinces, 1988[1]

	Rate
Canada	7.3
Newfoundland	6.3
Prince Edward Island	8.6
Nova Scotia	8.4
New Brunswick	7.6
Quebec	7.2
Ontario	7.5
Manitoba	8.4
Saskatchewan	8.0
Alberta	5.8
British Columbia	7.6

[1] *Source — Statistics Canada.*

Growth of the older population brought prominence to those diseases which are associated with the conditions of middle and old age, namely the cardio-vascular and renal diseases, and cancer as the leading causes of death. Another leading cause of death, accidents, came into prominence as a result of reductions in mortality from infections and certain other diseases once considered fatal.

Although there have been small fluctuations in the rate of infant deaths per 1,000 live births, on the whole this rate has been decreasing steadily since the record high of 92 infant deaths per 1,000 live births in 1923.

Maternal mortality has been virtually eliminated in Saskatchewan, with no maternal deaths occurring in 1988 and one maternal death occurring in 1987.

Natural Increase

During 1988, the net increase was less than the natural increase in population, indicating net migration to the province.

Marriages

During the 1930's, the marriage rate declined. A rise occurred during World War II, followed by a declining trend until 1962. The rate had been rising since 1962 until 1977 and 1978 which again showed a declining trend. The rate for 1988 was slightly lower than in 1987 (6.7 and 6.8 respectively).

Marriage Rate per 1,000 Population, Canada and Provinces, 1988[1]

	Rate
Canada	7.2
Newfoundland	6.5
Prince Edward Island	7.5
Nova Scotia	7.8
New Brunswick	7.4
Quebec	5.0
Ontario	8.3
Manitoba	7.3
Saskatchewan	6.7
Alberta	8.0
British Columbia	8.2

[1] *Source — Statistics Canada.*

Divorces and Annulments

In 1988 there were 2,442 divorces and annulments in Saskatchewan, with a rate of 242 per 100,000 population. This is a decrease over the 1987 rate of 287 per 100,000 population.

Introduction (Continued)

Table 1. Summary of Vital Statistics, Saskatchewan, 1983-1988

Item	1983	1984	1985	1986	1987	1988
Population (1,000's)	993	1,006	1,020	1,010	1,014	1,011
Live births	17,847	18,014	18,162	17,513	17,034	16,763
Rate*	18.0	17.9	17.8	17.3	16.8	16.6
Deaths	7,611	7,710	8,031	8,061	7,808	8,100
Rate*	7.7	7.7	7.9	8.0	7.7	8.0
Natural increase	10,236	10,304	10,131	9,452	9,226	8,663
Rate*	10.3	10.2	9.9	9.4	9.1	8.6
Gross reproduction rate	1.052	1.028	1.007	1.014	0.999	1.007
Infant deaths	180	169	200	157	155	140
Rate†	10.1	9.4	11.0	9.0	9.1	8.4
Neonatal deaths	103	101	123	96	87	84
Rate†	5.8	5.6	6.8	5.5	5.1	5.0
Perinatal deaths						
Based on 20+ weeks gestation period for stillbirths	216	214	207	181	163	162
Rate††	12	12	11	10	10	10
Based on 28+ weeks gestation period for stillbirths	188	173	166	143	135	130
Rate††	11	10	9	8	8	8
Stillbirths						
20+ weeks gestation	126	128	111	108	95	94
Rate†	7.1	7.0	6.1	6.2	5.6	5.6
28+ weeks gestation	98	87	70	70	67	62
Rate†	5.5	4.8	3.8	4.0	3.9	3.7
Marriages	7,504	7,213	7,132	6,820	6,853	6,767
Rate*	7.6	7.2	7.0	6.8	6.8	6.7
Divorces and annulments	2,000	1,988	1,927	2,449	2,909	2,442
Rate**	202	198	189	243	287	242

* *Rate per 1,000 population.*
† *Rate per 1,000 live births.*
†† *Rate per 1,000 total births (live births and stillbirths).*
** *Rate per 100,000 population.*

Introduction (Continued)

Table 2. Natural Increase and Actual Increase, Saskatchewan, 1961-1988

Year	Population	Live births	Deaths	Natural increase		Estimated actual increase	
				Number	Rate*	Number	Rate*
1961	925,181	23,994	7,107	16,887	18.3	10,181	11.0
1962	930,000	23,341	7,004	16,337	17.6	4,819	5.2
1963	933,000	23,543	7,441	16,102	17.2	3,000	3.2
1964	942,000	22,682	7,373	15,309	16.3	9,000	9.6
1965	950,000	20,494	7,417	13,077	13.8	8,000	8.4
1966	955,344	19,037	7,427	11,610	12.2	5,344	5.6
1967	957,000	17,993	7,441	10,552	11.0	1,656	1.7
1968	960,000	18,197	7,498	10,699	11.1	3,000	3.1
1969	958,000	17,592	7,492	10,100	10.5	-2,000	-2.1
1970	941,000	16,443	7,472	8,971	9.5	-17,000	-18.1
1971	926,242	16,054	7,413	8,641	9.3	-14,758	-15.9
1972	914,000	15,473	7,590	7,883	8.6	-12,242	-13.4
1973	904,500	14,806	7,646	7,160	7.9	-9,500	-10.5
1974	899,700	15,118	7,814	7,304	8.1	-4,800	-5.3
1975	907,400	15,265	7,672	7,593	8.4	7,700	8.5
1976	921,325	15,969	7,809	8,160	8.9	13,925	15.1
1977	937,000	16,547	7,593	8,954	9.6	15,675	16.7
1978	948,400	16,551	7,749	8,802	9.3	11,400	12.0
1979	959,000	16,944	7,369	9,575	10.0	10,600	11.0
1980	970,100	17,057	7,651	9,406	9.7	11,100	11.4
1981	968,310	17,209	7,523	9,686	10.0	-1,790	-1.8
1982	979,100	17,722	8,202	9,520	9.7	10,790	11.0
1983	992,700	17,847	7,611	10,236	10.3	13,600	13.7
1984	1,006,200	18,014	7,710	10,304	10.2	13,500	13.4
1985	1,019,500	18,162	8,031	10,131	9.9	13,300	13.0
1986	1,009,615	17,513	8,061	9,452	9.4	-9,885	-9.8
1987	1,014,000	17,034	7,808	9,226	9.1	4,385	4.3
1988	1,011,200	16,763	8,100	8,663	8.6	-2,800	-2.8

** Rate per 1,000 population.*

Introduction (Continued)

Table 3. Live Births and Deaths by Place of Occurrence and Place of Residence, Saskatchewan, 1988*

Item	Live births	Deaths
OCCURRING IN SASKATCHEWAN	16,694	8,100
Saskatchewan residents	16,366	7,957
Non-residents	328	143
— Canadian residents	320	136
— United States residents	3	2
— Other	5	5
OCCURRING TO SASKATCHEWAN RESIDENTS	16,763	8,100
In Saskatchewan	16,366	7,957
Elsewhere	397	143
— In Canada	394	141
— In United States	3	2

* *Source — Statistics Canada.*

Introduction (Continued)

Table 4. Population of Saskatchewan by Age Groups and Sex, 1986-1988*

Age group	1986		1987		1988	
	Number	Per cent	Number	Per cent	Number	Per cent
	Both sexes					
All ages	1,009,615	100.0	1,014,000	100.0	1,011,200	100.0
0-4	85,900	8.4	85,900	8.5	84,600	8.4
5-9	82,345	7.9	82,900	8.2	83,100	8.2
10-14	77,480	8.0	78,100	7.7	78,400	7.8
15-19	78,610	8.9	77,700	7.7	76,400	7.6
20-24	88,895	9.3	85,100	8.4	79,600	7.9
25-29	89,075	8.7	88,600	8.7	87,700	8.7
30-34	81,430	7.3	83,800	8.3	84,300	8.3
35-39	66,885	5.9	68,100	6.7	70,000	6.9
40-44	51,270	4.9	54,700	5.4	56,700	5.6
45-49	44,785	4.5	45,400	4.5	46,400	4.6
50-54	44,225	4.7	43,600	4.3	43,200	4.3
55-59	45,460	4.7	44,900	4.4	44,200	4.4
60-64	44,650	4.5	44,100	4.3	43,800	4.3
65-69	40,835	4.1	41,100	4.1	41,000	4.1
70-74	34,715	3.3	35,300	3.5	35,300	3.5
75-79	25,020	2.3	25,700	2.5	26,300	2.6
80-84	15,710	1.4	16,400	1.6	17,100	1.7
85-89	7,970	0.8	8,300	0.8	8,800	0.9
90 +	4,350	0.4	4,400	0.4	4,500	0.4
	Male					
All Ages	504,365	100.0	506,600	100.0	504,800	100.0
0-4	43,940	8.7	43,900	8.7	43,600	8.6
5-9	42,305	8.1	42,800	8.4	42,700	8.5
10-14	39,380	8.2	39,600	7.8	39,900	7.9
15-19	40,300	9.1	39,800	7.9	39,100	7.7
20-24	44,670	9.3	42,900	8.5	40,300	8.0
25-29	45,070	8.8	44,800	8.8	44,100	8.7
30-34	41,535	7.4	42,600	8.4	42,700	8.5
35-39	34,120	6.0	34,900	6.9	35,900	7.1
40-44	25,995	4.8	27,800	5.5	28,800	5.7
45-49	22,460	4.5	22,700	4.5	23,400	4.6
50-54	23,325	4.7	22,000	4.3	21,700	4.3
55-59	22,700	4.7	22,400	4.4	22,200	4.4
60-64	21,790	4.4	21,600	4.3	21,400	4.2
65-69	19,220	3.9	19,300	3.8	19,400	3.8
70-74	15,945	3.1	16,100	3.2	16,000	3.2
75-79	11,240	2.1	11,500	2.3	11,600	2.3
80-84	6,785	1.3	7,000	1.4	7,300	1.4
85-89	3,130	0.6	3,300	0.7	3,500	0.7
90 +	1,475	0.3	1,500	0.3	1,500	0.3

Introduction (Continued)

Table 4. Population of Saskatchewan by Age Groups and Sex, 1986-1988* (Continued)

Age group	1986		1987		1988	
	Number	Per cent	Number	Per cent	Number	Per cent
	Female					
All ages	505,250	100.0	507,400	100.0	506,400	100.0
0-4	41,960	8.2	41,900	8.3	41,000	8.1
5-9	40,045	7.8	40,100	7.9	40,400	8.0
10-14	38,100	7.8	38,500	7.6	38,500	7.6
15-19	38,315	8.7	37,900	7.5	37,300	7.4
20-24	44,230	9.3	42,200	8.3	39,300	7.8
25-29	44,010	8.7	43,800	8.6	43,700	8.6
30-34	39,895	7.1	41,200	8.1	41,600	8.2
35-39	32,765	5.8	33,200	6.5	34,100	6.7
40-44	25,275	4.7	26,900	5.3	27,900	5.5
45-49	22,330	4.5	22,600	4.5	23,000	4.5
50-54	21,905	4.6	21,600	4.3	21,500	4.2
55-59	22,760	4.8	22,500	4.4	22,000	4.3
60-64	22,860	4.7	22,500	4.4	22,500	4.4
65-69	21,615	4.3	21,800	4.3	21,700	4.3
70-74	18,770	3.5	19,200	3.8	19,300	3.8
75-79	13,780	2.4	14,200	2.8	14,700	2.9
80-84	8,930	1.6	9,400	1.9	9,800	1.9
85-89	4,835	0.9	5,000	1.0	5,200	1.0
90+	2,875	0.6	3,000	0.6	3,000	0.6

** Columns may not add to totals due to rounding error.*

Source

— 1987 and 1988: Statistics Canada Postcensal Population Estimates, Publication No. 91-210

— 1986 — Statistics Canada Census — The Nation, Publication No. 93-101.

Introduction (Continued)

Table 5. Summary of Population and Vital Statistics for Incorporated Urban Places of 1,000 Population and Over, Saskatchewan, 1988

Place of residence	Population*	Live births	Deaths	Infant deaths	Neonatal deaths	Stillbirths	Perinatal deaths	Marriages
Total for Province	1,009,613	16,763	8,100	140	84	94	162	6,767
Cities	706,250	9,164	4,024	81	51	42	83	4,427
Estevan	10,161	201	97	6	3	—	2	96
Lloydminster (Sask.)	7,155	184	39	—	—	1	1	56
Melfort	6,078	93	86	—	—	—	—	63
Melville	5,123	76	79	—	—	1	1	46
Moose Jaw	35,073	509	403	4	3	1	3	276
North Battleford	14,876	244	127	3	3	2	5	132
Prince Albert	33,686	728	288	6	3	2	5	382
Regina	175,064	3,153	1,212	40	25	16	35	1,336
Saskatoon	177,641	3,373	1,246	19	11	16	26	1,629
Swift Current	15,666	208	163	1	1	2	2	156
Weyburn	10,153	119	112	—	—	—	—	109
Yorkton	15,574	276	172	2	2	1	3	146
Towns	113,364	1,960	1,610	16	12	9	17	937
Assiniboia	3,001	40	64	—	—	—	—	27
Battleford	3,833	64	53	—	—	—	—	38
Biggar	2,626	42	39	—	—	—	—	23
Canora	2,602	18	49	—	—	—	—	17
Carlyle	1,172	36	14	—	—	—	—	12
Carnduff	1,090	7	27	1	1	—	—	13
Carrot River	1,101	20	19	—	—	—	—	10
Churchbridge	1,035	10	10	—	—	—	—	14
Coronach	1,006	16	12	1	1	1	2	5
Creighton	1,620	31	14	—	—	—	—	3
Dalmeny	1,328	26	19	—	—	—	—	13
Davidson	1,183	19	15	—	—	—	—	14
Esterhazy	3,083	46	32	—	—	—	—	24
Eston	1,383	21	26	—	—	—	—	5
Foam Lake	1,535	21	36	—	—	—	—	11
Fort Qu'Appelle	1,915	44	41	1	1	—	1	17
Gravelbourg	1,305	20	21	—	—	—	—	13
Grenfell	1,274	17	23	—	—	—	—	6
Gull Lake	1,164	10	18	—	—	—	—	7
Hudson Bay	2,133	38	25	1	1	—	1	18
Humboldt	5,089	94	54	1	—	1	1	38
Indian Head	1,886	21	22	—	—	—	—	10
Kamsack	2,565	52	56	2	2	—	1	15
Kelvington	1,084	20	27	—	—	—	—	10
Kerrobert	1,288	25	22	—	—	—	—	9
Kindersley	4,912	105	51	—	—	2	2	44
Kipling	1,033	15	18	—	—	—	—	6
La Ronge	2,696	132	15	1	—	—	—	25
Langenburg	1,371	24	15	1	1	—	1	12

Introduction (Concluded)

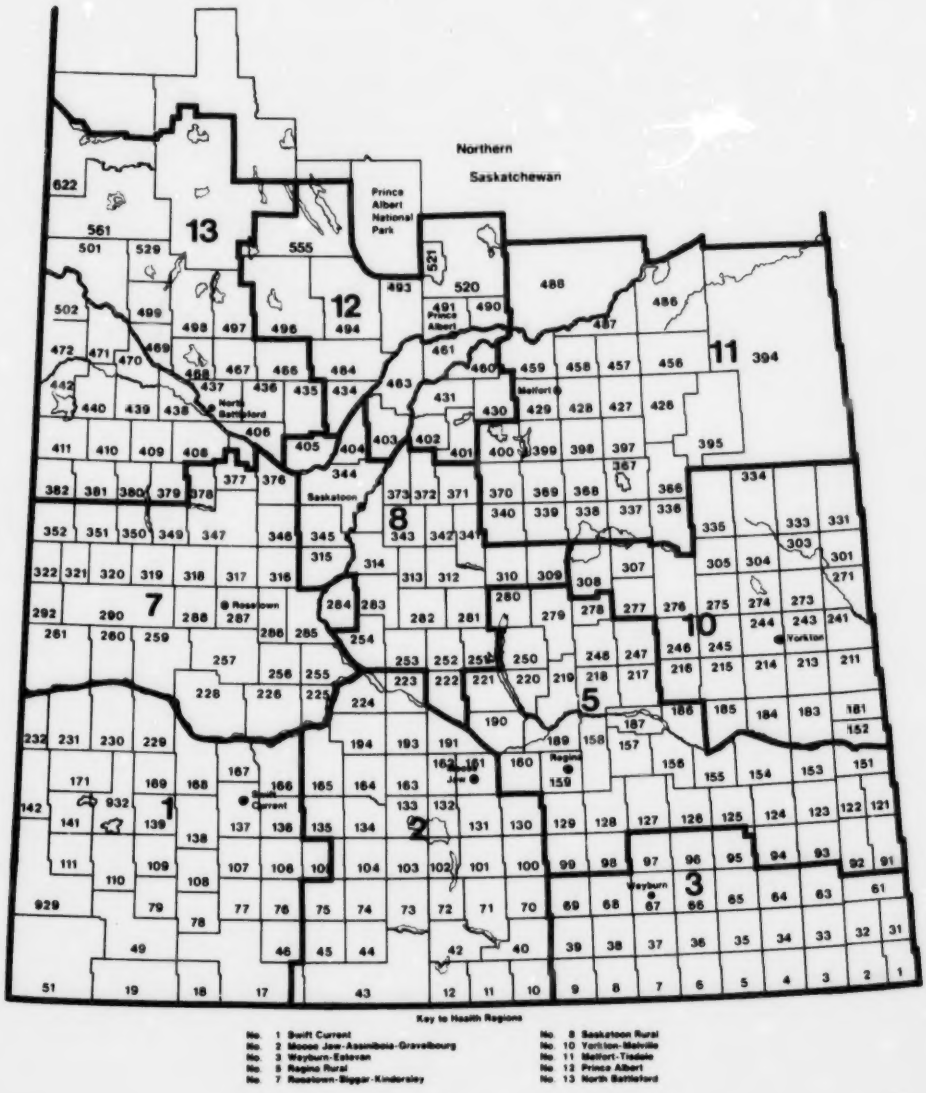
Table 5. Summary of Population and Vital Statistics for Incorporated Urban Places of 1,000 Population and Over, Saskatchewan, 1988 (Continued)

Place of residence	Population*	Live births	Deaths	Infant deaths	Neonatal deaths	Stillbirths	Perinatal deaths	Marriages
Langham	1,193	17	18	1	1	—	1	4
Lanigan	1,698	20	12	—	—	—	—	17
Leader	1,130	14	14	—	—	1	1	12
Lumsden	1,369	24	15	1	—	—	—	11
Macklin	1,131	21	17	—	—	—	—	10
Maidstone	1,112	15	15	—	—	—	—	4
Maple Creek	2,452	39	49	1	—	—	—	29
Martensville	2,760	79	4	—	—	—	—	12
Meadow Lake	3,976	119	48	—	—	1	1	47
Moosomin	2,557	28	33	—	—	—	—	25
Nipawin	4,588	62	73	1	1	1	2	36
Outlook	2,137	18	24	—	—	—	—	18
Oxbow	1,229	21	12	1	1	—	—	13
Pilot Butte	1,387	23	3	—	—	—	—	3
Preeceville	1,272	20	20	—	—	—	—	10
Rosetown	2,663	33	34	—	—	1	1	34
Rosthern	1,594	28	26	—	—	—	—	6
Shaunavon	2,153	27	42	—	—	—	—	10
Shellbrook	1,238	14	21	1	1	—	—	19
Spiritwood	1,025	16	19	—	—	—	—	9
Tisdale	3,184	47	43	1	1	1	2	37
Unity	2,471	44	30	—	—	—	—	17
Wadena	1,602	22	31	—	—	—	—	10
Wakaw	1,010	15	36	—	—	—	—	8
Warman	2,455	45	19	—	—	—	—	8
Watrous	1,953	35	28	—	—	—	—	17
Whitewood	1,107	24	26	—	—	—	—	10
Wilkie	1,526	26	17	—	—	—	—	18
Wynyard	2,079	30	44	—	—	—	—	24

* *Population at the time of the 1986 census.*

Health Regions

Figure 1. Health Region Map



Health Regions (Continued)

Since Saskatchewan has no fixed political divisions corresponding to the counties of eastern Canada, census divisions have been used in the past for the presentation of statistical data for areas smaller than the province. These were designed to permit future subdivisions, if necessitated by population increases, without destroying comparability of information collected by earlier census counts.

In the meantime, certain demographic, economic and social patterns had begun to emerge in the province. For general public health purposes, vital statistics must be presented in a form which can be related to these patterns. With this in mind, commencing in 1954, the tabulations of vital statistics by health statistical areas was undertaken, in close collaboration with the Dominion Bureau of Statistics. These areas represented territorial divisions of the province, each one of which is served by one or two dominant urban centres. As of 1974, vital statistics are presented by Health Regions. The cities of Regina and Saskatoon, with their own health departments, and *Northern Saskatchewan* form separate reporting areas.

The presentation of data on births, deaths and marriages according to health regions enables medical health officers, and others engaged in administrative or epidemiological tasks, to relate these and all other relevant data in a meaningful way.

Births by Health Region

Birth rates for health regions in 1988 ranged from a high 31.3 per 1,000 population in the sparsely populated *Northern Saskatchewan* area to a low 11.5 in the Yorkton-Melville region. The Northern areas (North Battleford, Prince Albert and the *Northern Health Services*) and the largest cities (Regina and Saskatoon) have shown consistently high birth rates over the years with *Northern Saskatchewan* being the highest.

These high birth rates coupled with relatively low death rates have given the northern areas and the largest cities, rates of natural increase higher than other areas in the province.

Deaths by Health Region

In 1988, the Moose Jaw-Assiniboia-Gravelbourg region had the highest death rate (10.4 per 1,000 population). *Northern Saskatchewan* had the lowest rate (4.2 per 1,000 population). Deaths and rates by health regions are found in Table 7, page 22.

Table 6. Population of Health Regions, Saskatchewan, 1988

Health Regions	Population
Total for Province	**1,044,151**
No. 1 Swift Current	47,535
No. 2 Moose Jaw-Assiniboia-Gravelbourg	68,094
No. 3 Weyburn-Estevan	51,323
No. 5 Regina Rural	76,696
No. 7 Rosetown-Biggar-Kindersley	40,616
No. 8 Saskatoon Rural	49,126
No. 10 Yorkton-Melville	80,442
No. 11 Melfort-Tisdale	72,347
No. 12 Prince Albert	81,550
No. 13 North Battleford	83,544
Regina City	179,400
Saskatoon City	183,487
Northern Saskatchewan	29,991

Source: Health Insurance Registration Covered Population

Health Regions (Continued)

Table 7. Summary of Vital Statistics for Health Regions, Saskatchewan Residents, 1988

Health regions	Live births		Deaths		Natural increase		Marriages	
	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*
Total for province	16,763	16.1	8,100	7.8	8,667	8.3	6,767	6.5
No. 1 Swift Current	621	13.1	419	8.8	202	4.2	277	5.8
No. 2 Moose Jaw-Assiniboia-Gravelbourg	962	14.1	707	10.4	255	3.7	411	6.0
No. 3 Weyburn-Estevan	713	13.9	450	8.8	263	5.1	341	6.6
No. 5 Regina Rural	914	11.9	579	7.5	335	4.4	343	4.5
No. 7 Rosetown-Biggar-Kindersley	623	15.3	363	8.9	260	6.4	198	4.9
No. 8 Saskatoon Rural	732	14.9	283	5.8	449	9.1	214	4.4
No. 10 Yorkton-Melville	929	11.5	807	10.0	122	1.5	446	5.5
No. 11 Melfort-Tisdale	950	13.1	637	8.8	313	4.3	404	5.6
No. 12 Prince Albert	1,381	16.9	674	8.3	707	8.7	588	7.2
No. 13 North Battleford	1,470	17.6	596	7.1	874	10.5	482	5.8
City of Regina	3,153	17.6	1,212	6.8	1,941	10.8	1,336	7.4
City of Saskatoon	3,373	18.4	1,246	6.8	2,127	11.6	1,629	8.9
Northern Saskatchewan	940	31.3	125	4.2	815	27.2	98	3.3
Not stated	2	***	2	***	—	—	—	—

Health regions	Infant deaths		Neonatal deaths		Stillbirths**		Perinatal deaths**	
	Number	Rate†	Number	Rate†	Number	Rate†	Number	Rate††
Total for province	140	8.3	84	5.0	94	5.6	162	9.6
No. 1 Swift Current	6	9.7	4	6.4	5	8.1	8	12.8
No. 2 Moose Jaw-Assiniboia-Gravelbourg	6	6.2	4	4.2	3	3.1	6	6.2
No. 3 Weyburn-Estevan	9	12.6	6	8.4	2	2.8	5	7.0
No. 5 Regina Rural	10	10.9	5	5.5	7	7.7	12	13.0
No. 7 Rosetown-Biggar-Kindersley	4	6.4	4	6.4	6	9.6	9	14.3
No. 8 Saskatoon Rural	2	2.7	1	1.4	1	1.4	2	2.7
No. 10 Yorkton-Melville	7	7.5	5	5.4	4	4.3	8	8.6
No. 11 Melfort-Tisdale	5	5.3	3	3.2	7	7.4	10	10.4
No. 12 Prince Albert	12	8.7	7	5.1	5	3.6	11	7.9
No. 13 North Battleford	8	5.4	4	2.7	11	7.5	15	10.1
City of Regina	40	12.7	25	7.9	16	5.1	35	11.0
City of Saskatoon	19	5.6	11	3.3	16	4.7	26	7.7
Northern Saskatchewan	11	11.7	5	5.3	11	11.7	15	15.8
Not stated	1	***	—	—	—	—	—	—

* *Rate per 1,000 live population — Health Insurance Registration Covered Population.*
† *Rate per 1,000 live births.*
** *Based on 20+ weeks gestation.*
†† *Rate per 1,000 total births.*
*** *Less than 0.002*

Health Regions (Concluded)

Table 8. Selected Leading Causes of Death by Residence, Saskatchewan, 1988

Place of residence	All deaths	Heart diseases (A128-A148)	Malignant neoplasms (A37-A86)	Cerebro-vascular disease (A149-A155)	Accidents (AE234-AE263)	Pneumonia (A163-A167)	Certain causes of perinatal mortality (A229-A231)	Suicide and self-inflicted injury (A264-A270)	Other
	Cause of death								
Total for province	8,100	2,611	1,971	648	465	370	53	145	1,837
Cities* (with more than 5,000 population)	4,027	1,242	990	304	190	215	29	67	990
Estevan (3)	97	24	27	5	5	5	—	—	31
Melfort (11)	89	27	19	6	3	10	—	1	23
Melville (10)	79	28	16	6	5	5	—	1	18
Moose Jaw (2)	403	137	107	27	15	14	—	7	96
North Battleford (13)	127	41	28	13	5	8	2	1	29
Prince Albert (12)	288	78	55	24	27	15	—	2	87
Regina	1,212	364	319	87	42	59	19	20	302
Saskatoon	1,246	374	311	89	73	65	6	28	300
Swift Current (1)	163	49	27	16	5	25	1	1	39
Weyburn (3)	112	40	26	8	3	6	—	3	26
Yorkton (10)	172	71	41	21	5	2	1	1	30
Lloydminster (Sask.) (13)	39	9	14	2	2	1	—	2	9
Health regions (excluding cities)	4,071	1,369	981	344	275	155	24	78	845
No. 1 Swift Current	256	92	63	22	9	24	1	5	40
No. 2 Moose Jaw-Assiniboia-Gravelbourg	304	110	69	21	23	19	1	3	58
No. 3 Weyburn-Estevan	241	88	56	19	16	5	2	4	51
No. 5 Regina Rural	579	198	145	50	37	14	4	13	118
No. 7 Rosetown-Biggar-Kindersley	363	137	76	25	23	21	3	5	73
No. 8 Saskatoon Rural	283	99	73	29	13	9	1	6	53
No. 10 Yorkton-Melville	556	191	153	49	19	20	4	7	113
No. 11 Melfort-Tisdale	548	170	136	48	37	15	2	8	132
No. 12 Prince Albert	386	125	84	40	34	7	—	10	86
No. 13 North Battleford	430	127	103	39	42	14	1	11	93
Northern Saskatchewan	125	32	23	2	22	7	5	6	28
Not stated	2	—	—	—	—	—	—	—	2

* *Health region number is given in parenthesis.*

Births

Birth Rate

There were 16,763 live births to Saskatchewan residents in 1988, resulting in a birth rate of 16.6 per 1,000 population.

Multiple Births

Multiple births in 1988 included 189 sets of twins, and 1 set of triplets and 2 sets of quadruplets. Six sets of twins included one stillborn infant.

Births in Hospitals

In 1988, 37 births did not occur in hospital.

Births by Sex

Continuing a long-term trend, there were more male live births than female live births in 1988, numbering 8,550 and 8,213 respectively, a ratio of 1,041 male to 1,000 female live births.

Male Live Births per 1,000 Female Live Births	
1976	1,044
1977	1,055
1978	1,053
1979	1,052
1980	1,080
1981	1,070
1982	1,024
1983	1,027
1984	1,047
1985	1,078
1936	1,056
1987	1,048
1988	1,041

Births Occurring to Single Mothers

There was an increase in the number of babies born to single mothers in 1988, numbering 4,327 compared to 4,081 in 1987. The single parent live births increased to 25.8 per cent of all births.

The average age of unmarried mothers was lower (22.4) than that of married mothers (27.4).

Stillbirths

The minimum gestational period for compulsory registration of foetal deaths was lowered from 28 weeks to 20 weeks in 1961 due to a change in the definition of stillbirth. Using this definition, there were 94 stillbirths in the province in 1988, giving a rate of 5.6 per 1,000 live births. Stillbirths occurred most frequently in the gestation periods of 20-27, 33-37 and 38-40 weeks. Males accounted for 52.1 per cent of total stillbirths. The average age of mothers bearing stillborn children was 25.7 years. The average age of mothers whose children were liveborn was 26.1 years.

Fertility Rates

The crude birth rate, i.e. the rate per 1,000 total population, is an inadequate measure of the rate at which the population is replacing itself because it is so much affected by changes in the age and sex composition of the population.

Almost all children born each year are to women between the ages of 15 and 49 — with very small numbers above and below these ages. Variations in the proportion of women of these ages to the total population will cause variations in the crude birth rates of different countries or even regions within a country or a province, even though the actual rates of reproduction or fertility of the women in those age groups are identical. It is therefore conventional to calculate an age specific fertility rate, i.e. an individual birth rate per 1,000 women in each of these reproductive age periods. The sum of these rates multiplied by five represents the "total fertility", that is, the number of births which 1,000 women would have throughout their lifetime, assuming no mortality, if they experienced at each age the fertility in effect during the period concerned.

From this in turn can be calculated a gross reproduction rate, which for a given year represents the average number of female infants that would be born to each woman who lived to reach the age of 50 if the fertility rates of a given year remained unchanged. When the gross reproduction rate falls below one, the women in the reproductive period of life are not having enough children to replace themselves, even if all their children lived to maturity.

Births (Continued)

Age Specific Fertility Rates, Saskatchewan, 1988

Age groups	*Rate per 1,000*
15-19	43.9
20-24	122.4
25-29	144.9
30-34	77.9
35-39	22.7
40-44	2.9
45-49	—
Total Fertility	2,056
Gross Reproduction Rate	1.007

Age of Parents

The average age of parents is determined by the interaction of several factors, the most important of which are age at marriage, the length of time between marriage and the arrival of the first child, and the spacing of additional children during the mother's reproductive period.

In 1988, the average age of fathers was 29.4 years, of married mothers 27.4 years, and of unmarried mothers 22.4 years.

Birth Order

Thirty-six per cent of all live births were first children and 56 per cent of the mothers of these first-born were under 25 years of age. 12.6 per cent of first-born infants were to mothers over 30 years of age. First, second, and third children made up 88 per cent of total births, and 41.2 per cent of these mothers were under 25 years of age. Average age of mothers for first-born infants for 1988 was 23.9 years.

Birth Weight

Birth weight information provides the number of immaturely-developed live deliveries, those which are exposed to a greater risk of death than a "mature" infant. The recommendations of the World Health Organization specify that infants of 2500 grams or less at birth (approximately 5 pounds, 8 ounces) be considered "immature".

The average weight of all infants born in 1988 was 3416.4 grams. There is a direct relationship between the age of mother and birth weight. The proportion of "immature" births by age of mother reveals that a mother has a greater chance of delivering an "immature" foetus at less than 20 years or over 40 years of age than at any other age in the reproductive period. This data is illustrated on page 28, table 13.

There is also a relationship between the weight of the foetus and period of gestation. Of the 3.6 per cent of children born in 1988 at less than 36 weeks gestation, 74.3 per cent were "immature". Of those born in the period of 36 to 39 weeks, 5.4 per cent were classified as "immature" and of those born after 40 weeks gestation only 0.7 per cent weighed 2500 grams or less. This data is illustrated on page 29, table 14.

Births (Continued)

Table 9. Stillbirths by Sex and Period of Gestation, Saskatchewan, 1988

Period of gestation (weeks)	Number			Per cent distribution		
	Total	Male	Female	Total	Male	Female
Total	94	49	45	100.0	52.1	47.9
20-27	32	18	14	34.0	56.3	43.8
28-32	15	7	8	16.0	46.7	53.3
33-37	20	11	9	21.3	55.0	45.0
38-40	21	9	12	22.3	42.9	57.1
41 +	6	4	2	6.4	66.7	33.3

Table 10. Live Births and Stillbirths by Age of Mother, Saskatchewan, 1988*

Age group	All births		Type of birth			
			Live births		Stillbirths	
	Number	Per cent	Number	Per cent	Number	Per cent
Total	16,857	100.0	16,763	100.0	94	100.0
Under 20	1,674	9.9	1,663	9.9	11	11.7
20-24	4,698	27.9	4,674	27.9	24	25.5
25-29	6,347	37.7	6,308	37.6	39	41.5
30-34	3,261	19.3	3,245	19.4	16	17.0
35-39	788	4.7	785	4.7	3	3.2
40-44	85	0.5	84	0.5	1	1.1
45-49	4	**	4	**	—	—
Average age		26.1		26.1		25.7
Median age		26.0		26.0		26.0

** This table shows the number of births and stillbirths occuring to mothers in these age groups, and not the actual number of mothers in each group, as not all births were single births.*

*** Less than 0.1 per cent.*

Births (Continued)

Table 11. Live Births by Age of Parent, Saskatchewan, 1988*

Age group	Fathers		Married mothers		Unmarried mothers	
	Number	Per cent	Number	Per cent	Number	Per cent
Total	16,763	100.0	12,436	100.0	4,327	100.0
Under 20	2,602	15.5	228	1.8	1,435	33.2
20-24	2,125	12.7	3,025	24.3	1,649	38.1
25-29	5,466	32.6	5,494	44.2	814	18.8
30-34	4,313	25.7	2,929	23.6	316	7.3
35-39	1,641	9.8	682	5.5	103	2.4
40-44	433	2.6	76	0.6	8	0.2
45-49	132	0.8	2	**	2	**
50+	51	0.3	—	—	—	—
Not stated	—	—	—	—	—	—
Average age†		29.4		27.4		22.4
Median age†		29.0		27.0		21.0

* *This table shows the number of live births occuring to parents in these age groups, and not the actual number of parents in each age group, as not all births were single births.*

† *Average and median ages were calculated using single year age groups.*

** *Less than 0.05 per cent.*

Table 12. Live Births by Age of Mother and Order of Birth, Saskatchewan, 1988

Order of birth	Age of mother									
	Total	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Not stated
Total	16,763	35	1,628	4,674	6,308	3,245	785	84	4	—
1st child	6,006	34	1,224	2,092	1,898	637	111	10	—	—
2nd child	5,524	1	333	1,647	2,331	1,016	176	20	—	—
3rd child	3,182	—	64	670	1,349	880	205	14	—	—
4th child	1,186	—	6	183	462	387	136	10	2	—
5th child	437	—	1	52	158	150	69	7	—	—
6th child	199	—	—	17	61	83	31	7	—	—
7th child	113	—	—	9	30	50	17	5	2	—
8th child	57	—	—	2	12	22	19	2	—	—
9th child	33	—	—	2	4	13	10	4	—	—
10th child	14	—	—	—	3	6	5	—	—	—
11th child	7	—	—	—	—	1	4	2	—	—
12th child	1	—	—	—	—	—	—	1	—	—
13th child	1	—	—	—	—	—	1	—	—	—
14th child	1	—	—	—	—	—	—	1	—	—
15th child	1	—	—	—	—	—	1	—	—	—
17th child	1	—	—	—	—	—	—	1	—	—

Births (Continued)

Table 13. Live Births by Age of Mother and Birth Weight, Saskatchewan, 1988

Birth weight			Age of mother							
Gram intervals	Equivalent in lbs./oz.	Total	-20 years	20-24	25-29	30-34	35-39	40-44	45+	Not stated
Total		16,763	1,663	4,674	6,308	3,245	785	84	4	—
500 or less	1/1 or less	9	2	—	5	1	1	—	—	—
501-750	1/2-1/10	19	1	4	9	4	1	—	—	—
751-1,000	1/11-2/3	37	4	10	19	3	1	—	—	—
1,001-1,250	2/4-2/12	39	4	12	13	7	2	1	—	—
1,251-1,500	2/13-3/4	48	5	9	19	15	—	—	—	—
1,501-1,750	3/5-3/13	53	6	12	17	13	4	1	—	—
1,751-2,000	3/14-4/6	90	6	23	44	12	5	—	—	—
2,001-2,250	4/7-4/15	193	25	55	76	27	10	—	—	—
2,251-2,500	5/0-5/8	376	40	110	122	77	24	3	—	—
Total 2,500 or less	5/8 or less	864	93	235	324	159	48	5	—	—
2,501-2,750	5/9-6/1	808	86	245	296	143	35	4	—	—
2,751-3,000	6/2-6/9	1,532	155	475	556	284	55	7	—	—
3,001-3,250	6/10-7/2	2,622	278	733	995	498	102	16	—	—
3,251-3,500	7/3-7/11	3,407	325	1,015	1,260	648	145	14	—	—
3,501-3,750	7/12-8/4	3,127	323	850	1,191	600	150	11	2	—
3,751-4,000	8/5-8/13	2,261	194	596	863	477	116	13	2	—
4,001-4,250	8/14-9/6	1,210	118	302	465	245	76	4	—	—
4,251-4,500	9/7-9/14	595	57	156	236	111	30	5	—	—
4,501-4,750	9/15-10/7	227	26	41	79	55	21	5	—	—
4,751-5,000	10/8-11/0	77	6	17	34	16	3	1	—	—
5,001-5,250	11/1-11/9	22	2	7	6	4	3	—	—	—
5,251-5,500	11/10-12/2	11	—	2	3	5	1	—	—	—
5,501-5,750	12/3-12/10	—	—	—	—	—	—	—	—	—
5,751-6,000	12/11-13/3	—	—	—	—	—	—	—	—	—
Total 2,501+	over 5/8	15,899	1,570	4,439	5,984	3,086	737	79	4	—
Not stated		—	—	—	—	—	—	—	—	—
Per cent of total		100.0	9.9	27.9	37.6	19.4	4.7	0.5	*	—
Per cent 2,500 grams or less		5.2	5.6	5.0	5.1	4.9	6.1	6.0	—	—
Average weight (grams)		3,416.4	3,394.9	3,392.7	3,418.9	3,439.6	3,478.6	3,476.9	3,741.8	—
Median weight (grams)		3,430.0	3,430.0	3,402.0	3,445.0	3,458.0	3,515.0	3,406.0	3,784.5	—

* *Less than 0.05 per cent.*

Births (Continued)

Table 14. Live Births by Period of Gestation and Birth Weight, Saskatchewan, 1988

Birth weight			Period of gestation							
Gram intervals	Equivalent in lbs./oz	Total	-20 weeks	20-23	24-27	28-31	32-35	36-39	40+	Not stated
Total		16,763	—	11	56	96	437	6,410	9,753	—
500 or less	1/1 or less	9	—	5	3	1	—	—	—	—
501-750	1/2-1/10	19	—	5	12	2	—	—	—	—
751-1,000	1/11-2/3	37	—	1	22	13	1	—	—	—
1,001-1,250	2/4-2/12	39	—	—	14	19	3	2	1	—
1,251-1,500	2/13-3/4	48	—	—	4	27	13	4	—	—
1,501-1,750	3/5-3/13	53	—	—	1	17	27	8	—	—
1,751-2,000	3/14-4/6	90	—	—	—	10	53	24	3	—
2,001-2,250	4/7-4/15	193	—	—	—	2	89	87	15	—
2,251-2,500	5/0-5/8	376	—	—	—	2	100	223	51	—
Total 2,500 or less	5/8 or less	864	—	11	56	93	286	348	70	—
2,501-2,750	5/9-6/1	808	—	—	—	—	67	529	212	—
2,751-3,000	6/2-6/9	1,532	—	—	—	—	35	892	605	—
3,001-3,250	6/10-7/2	2,622	—	—	—	1	27	1,285	1,309	—
3,251-3,500	7/3-7/11	3,407	—	—	—	1	8	1,348	2,050	—
3,501-3,750	7/12-8/4	3,127	—	—	—	1	9	980	2,137	—
3,751-4,000	8/5-8/13	2,261	—	—	—	—	1	582	1,678	—
4,001-4,250	8/14-9/6	1,210	—	—	—	—	3	270	937	—
4,251-4,500	9/7-9/14	595	—	—	—	—	—	124	471	—
4,501-4,750	9/15-10/7	227	—	—	—	—	1	30	196	—
4,751-5,000	10/8-11/0	77	—	—	—	—	—	16	61	—
5,001-5,250	11/1-11/9	22	—	—	—	—	—	5	17	—
5,251-5,500	11/10-12/2	11	—	—	—	—	—	1	10	—
5,501-5,750	12/3-12/10	—	—	—	—	—	—	—	—	—
5,751-6,000	12/11-13/3	—	—	—	—	—	—	—	—	—
Total 2,501+	over 5/8	15,899	—	—	—	3	151	6,062	9,683	—
Not stated		—	—	—	—	—	—	—	—	—
Per cent of total		100.0	—	0.1	0.3	0.6	2.6	38.2	58.2	—
Per cent 2,500 grams or less		5.2	—	100.0	100.0	96.9	65.4	5.4	0.7	—
Average weight (grams)		3,416.4	—	518.7	906.0	1,435.9	2,363.7	3,280.3	3,590.2	—
Median weight (grams)		3,430.0	—	520.0	897.5	1,374.5	2,310.0	3,280.0	3,572.0	—

* *Less than 0.05 per cent*

Births (Concluded)

Table 15. Live Births by Marital Status and Birth Weight for Mothers Under 20, Saskatchewan, 1988

Gram Intervals	Marital Status					
	Single	Married	Divorced	Widowed	Not Stated	Total
Total	**1,431**	**228**	**4**	**—**	**—**	**1,663**
500 or less	2	—	—	—	—	2
501 - 750	1	—	—	—	—	1
751 - 1,000	3	1	—	—	—	4
1,001 - 1,250	4	—	—	—	—	4
1,251 - 1,500	2	3	—	—	—	5
1,501 - 1,750	4	2	—	—	—	6
1,751 - 2,000	4	2	—	—	—	6
2,001 - 2,250	24	1	—	—	—	25
2,251 - 2,500	34	6	—	—	—	40
Total 2,500 or less	**78**	**15**	**—**	**—**	**—**	**93**
2,501 - 2,750	78	6	2	—	—	86
2,751 - 3,000	126	29	—	—	—	155
3,001 - 3,250	246	32	—	—	—	278
3,251 - 3,500	283	41	1	—	—	325
3,501 - 3,750	271	51	1	—	—	323
3,751 - 4,000	173	21	—	—	—	194
4,001 - 4,250	100	18	—	—	—	118
4,251 - 4,500	46	11	—	—	—	57
4,501 - 4,750	23	3	—	—	—	26
4,751 - 5,000	7	1	—	—	—	8
Not stated	—	—	—	—	—	—

Table 16. Live Births by Marital Status and Gestation for Mothers Under 20, Saskatchewan, 1988

Gestation	Marital Status					
	Single	Married	Divorced	Widowed	Not Stated	Total
25 weeks	3	—	—	—	—	3
26 weeks	1	—	—	—	—	1
27 weeks	3	1	—	—	—	4
28 weeks	2	2	—	—	—	4
29 weeks	1	—	—	—	—	1
30 weeks	5	—	—	—	—	5
31 weeks	1	2	—	—	—	3
32 weeks	5	1	—	—	—	6
33 weeks	4	1	—	—	—	5
34 weeks	12	3	—	—	—	15
35 weeks	19	2	—	—	—	21
36 weeks	29	7	—	—	—	36
37 weeks	74	9	1	—	—	84
38 weeks	185	23	2	—	—	210
39 weeks	248	39	—	—	—	287
40 weeks	600	90	1	—	—	691
Over 40 weeks	239	48	—	—	—	287
Total	**1,431**	**228**	**4**	**—**	**—**	**1,663**

Mortality

In 1988 death claimed 8,100 Saskatchewan residents constituting a crude death rate of 8.0 per 1,000 population.

Deaths by occurrence within the province amounted to 8,100. Of this total, 7,957 decedents were residents of Saskatchewan and 143 were non-residents. Deaths of Saskatchewan residents occurring outside the province numbered 143.

Age-Sex Mortality

Age specific death rates generally form the following pattern. Beginning with a high rate for infants, the rate drops to a minimum at the 5 to 14 age group then rises in each subsequent age group.

As in past years, the male death rate (9.2 per 1,000 population) exceeded the female rate (6.7 per 1,000 population) in 1988 (based on Statistics Canada population estimates). The difference in mortality rates between the sexes is more pronounced with the advancement of age.

In 1988, 2.2 per cent of all male deaths occurred in the under 5 age group, 25.0 per cent in the 5 to 64 age groups and 72.8 per cent in the 65 and over age group. Of female deaths, 2.1 per cent occurred in the under 5 age group, 17.4 per cent between the ages of 5 and 64, and 80.4 per cent in the 65 and over group.

Table 17. Age Specific Death Rates (per 1,000 Population), Saskatchewan, 1976-1988*

Year	All ages	Age group					
		Under 5	5-14	15-24	25-44	45-64	65+
1976	8 5	3 8	0 4	1 4	1 8	8 0	52 5
1977	8 1	4 0	0 4	1 6	1 6	7 0	50 3
1978	8 2	3 9	0 5	1 3	1 6	7 3	50 2
1979	7 7	3 2	0 4	1 4	1 6	7 1	46 3
1980	7 8	2 9	0 3	1 2	1 4	7 1	47 8
1981	7 8	3 1	0 4	1 2	1 4	7 1	46 1
1982	8 4	2 6	0 3	1 3	1 3	7 7	50 0
1983	7 7	2 5	0 3	1 1	1 3	6 6	45 7
1984	7 7	2 5	0 2	0 9	1 3	6 8	46 0
1985	7 9	2 7	0 3	1 0	1 2	7 0	47 0
1986	8 0	2 3	0 3	1 2	1 2	7 2	46 5
1987	7 7	2 2	0 4	1 1	1 1	6 6	44 8
1988	8 0	2 1	0 3	1 0	1 3	6 7	46 3

* *Rates were calculated using Statistics Canada population estimates.*

Standardized (Age Adjusted) Death Rates

Analysis of mortality based on comparisons of crude death rates may prove to be unsatisfactory due to changes in the age composition of the population. A larger older population increases the risk of death, which will be reflected in the crude death rate. This factor may be corrected by determining what the mortality rate would have been had the age composition of the population remained constant over a series of years. Mortality rates are thus "standardized" to an arbitrary standard population, usually to the population in one particular year. The rates in Table 18 are standardized to the 1956 Saskatchewan census population.

Comparing the 1988 Saskatchewan crude death rate of 8.0 to the 1921 death rate of 7.4, there seems to be a deterioration. However, by "standardizing" (i.e. assuming that the age distribution of the population both in 1921 and 1988 was the same as in 1956), the results show a marked improvement since 1921.

Since 1921 the standardized death rate has been decreasing for both sexes. Female rates have decreased more rapidly, however, and over the years the gap between male and female rates has widened. In 1921, the standardized death rate for males was 10.5 per 1,000 population and for females 10.3. The 1988 figures are 6.2 per 1,000 population for males, and 3.6 for females.

Mortality (Continued)

Deaths in Hospitals

There were 5,547 deaths in hospitals in 1988 in the province as a whole (68.5 per cent). This is a slightly lower proportion than the 1987 level of 69.4 per cent.

Leading Causes of Death

There is a varying impact of diseases on the different stages of the life span. Diseases peculiar to early infancy, congenital anomalies and pneumonia are main causes of death in infancy, while accidents take the greatest toll in childhood and young adult groups. Heart diseases and cancer become the major causes of death to persons in the middle and older ages.

In 1988, the average life years lost per decedent were 12.79 for males and 14.69 for females.

Heart diseases were the leading cause of death in terms of life years lost, making up 22.9 per cent of the total. They were also highest in actual number of deaths, accounting for nearly one-third of the total. Malignant neoplasms were the second highest cause of life years lost, and second highest in actual number of deaths. Transport accidents were third highest in terms of life years lost.

Heart Disease

The proportion of older people in the population is increasing rapidly as a result of the lengthening life span. Since heart diseases are associated with the conditions of middle and old age, mortality from heart diseases have become a major cause of death.

Heart diseases accounted for 2,611 deaths in Saskatchewan in 1988 (250.1 per 100,000 population). (Rates referred to in this section were calculated using the HIR covered population). This is an increase in number and rate from 1987.

Thirty-two per cent of all deaths in the province in 1988 were caused by heart diseases. Ischaemic heart disease was the leading cause of death in the 65 and over age group, and the second leading cause of death in the 45-64 age group, accounting for 27.4 and 22.4 per cent of deaths respectively. Of the total deaths due to heart diseases, 12.4 per cent were to persons in the 45-64 age group and 85.9 per cent in the 65 and over age group. Thus, almost all deaths caused by heart diseases (98.4 per cent) occurred to persons 45 years of age and over.

Ischaemic heart disease accounted for 75.8 per cent of total heart diseases, a rate of 189.6 per 100,000 population. Death rates from chronic rheumatic heart disease, hypertensive disease, and other forms of heart disease were 1.5, 5.4 and 53.5 per 100,000 population, respectively.

The male death rate from heart diseases (293.6) continued to be much higher than the female rate (206.3) with also a large difference in ischaemic heart disease, males (233.4) and females (145.5).

Malignant Neoplasms (Cancer)

As in the case of heart diseases, cancer remains a leading cause of death because of the increase of older persons in the population. This disease was the second leading cause of death in 1988. The proportion (24.3 per cent of total deaths) was slightly lower than in 1987. The number (1,971) and the rate (188.8 per 100,000 population) were higher than in 1987. (Rates referred to in this section were calculated using the HIR covered population).

Of the total deaths from cancer in Saskatchewan, 23.7 per cent were in the 45-64 age group and 71.7 per cent in the 65 plus group.

There was an increase in the male cancer mortality rate from 211.1 in 1987 to 218.4 in 1988 and an increase in the female rate from 158.7 in 1987 to 159.0 in 1988. More males die from cancer of trachea, bronchus and lungs, and more females die from breast cancer, than any other form.

Accidents and Violence

There were 643 deaths due to accidents in 1988 compared with 688 in 1987, with the rate per 100,000 population showing a decrease to 61.4 in 1988 from 65.8 in 1987. (Rates referred to in this section were calculated using the HIR covered population). The proportion of accidental deaths to all deaths decreased, from 8.8 in 1987 to 7.9 in 1988.

Accidents were a leading cause of death in all age groups from 1-34. Transport accidents were the leading cause of death in the ages 5-34.

The male accident rate was much higher than the female rate (87.2 and 35.8 per 100,000 population respectively).

The number of suicides in Saskatchewan in 1988 increased to 145, giving a rate of 14.3 per 100,000 population.

Mortality (Continued)

Twenty-two per cent of all suicides in Saskatchewan were in the 15-24 age group; 83.4 per cent of all suicides were men.

Deaths from homicide and legal intervention totalled 21 in Saskatchewan in 1988. Of these victims 16 were males and 5 were females.

Table 18. Standardized* Mortality Rates for Saskatchewan, Decennial Census Years, 1921-88†

Year	Both sexes	Male	Female
1921	10.4	10.5	10.3
1931	10.0	10.0	10.0
1941	9.2	9.6	8.7
1951	7.8	8.4	7.1
1961	6.7	7.8	5.3
1971	5.9	7.3	4.5
1981	5.2	6.6	3.9
1988	4.8	6.2	3.6

* *Standardized to the 1956 Saskatchewan census population.*

† *Source-Statistics Canada.*

Table 19. Deaths by Age and Sex with Rates and Percentages, Saskatchewan, 1988

	Number			Rate per 1,000 population*			Per cent		
Age	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Total	8,100	4,690	3,410	7.8	9.0	6.6	100.0	100.0	100.0
<1	140	79	61	9.1	10.0	8.2	1.7	1.7	1.8
1-4	34	23	11	0.5	0.6	0.3	0.4	0.5	0.3
5-9	24	16	8	0.3	0.4	0.2	0.3	0.3	0.2
10-14	23	12	11	0.3	0.3	0.3	0.3	0.3	0.3
15-19	78	53	25	1.0	1.3	0.6	1.0	1.1	0.7
20-24	76	61	15	0.9	1.4	0.4	0.9	1.3	0.4
25-29	78	55	23	0.8	1.1	0.5	1.0	1.2	0.7
30-34	87	69	18	1.0	1.5	0.4	1.1	1.5	0.5
35-39	88	54	34	1.2	1.4	1.0	1.1	1.2	1.0
40-44	126	82	44	2.2	2.8	1.5	1.6	1.7	1.3
45-49	143	87	56	3.0	3.6	2.4	1.8	1.9	1.6
50-54	212	141	71	4.8	6.4	3.3	2.6	3.0	2.1
55-59	307	208	99	6.8	9.2	4.4	3.8	4.4	2.9
60-64	528	334	194	11.9	15.4	8.5	6.5	7.1	5.7
65-69	765	507	258	18.5	25.9	11.8	9.4	10.8	7.6
70-74	991	611	380	27.8	37.3	19.7	12.2	13.0	11.1
75-79	1,093	684	409	41.2	58.3	27.6	13.5	14.6	12.0
80-84	1,244	700	544	72.8	96.4	55.3	15.4	14.9	16.0
85-89	997	483	514	113.3	137.3	97.4	12.3	10.3	15.1
90+	1,066	431	635	232.0	283.6	206.5	13.2	9.2	18.6

* *Rates were calculated using the Health Insurance Registration Covered Population as of June 30, 1988.*

Mortality (Continued)

Table 20. Leading Causes of Death in Each Age Group, Saskatchewan, 1988

Age group and cause of death	Deaths in specified age groups		Deaths at all ages from specified causes	
	Number	Percent	Number	Per cent in specified age group
Under 1 year	140	100.0	—	—
B45 Conditions in perinatal period	52	37.1	53	98.1
B44 Congenital anomalies	43	30.7	61	70.5
B46 Symptoms and ill-defined conditions	26	18.6	73	35.6
B32 Other diseases of respiratory system	7	5.0	797	0.9
Other	12	8.6	—	—
1-4 years	34	100.0	—	—
BE52 Other accidents, late effects	7	20.6	102	6.9
B32 Other diseases of respiratory system	5	14.7	797	0.6
BE47 Transport accidents	4	11.8	220	1.8
B22 Diseases of the nervous system	3	8.8	184	1.6
BE50 Accidental falls	3	8.8	107	2.8
B08-B14 Malignant neoplasms	2	5.9	1,971	0.1
B28 Pulmonary and other heart disease	2	5.0	559	0.4
B44 Congenital anomalies	2	5.9	61	3.3
Other	6	17.6	—	—
5-14 years	47	100.0	—	—
BE47 Transport accidents	16	34.0	220	7.3
BE52 Other accidents late effects	10	21.3	102	9.8
BE51 Accidents caused by fires/flames	6	12.8	20	30.0
BE54 Suicide and self-inflicted injury	4	8.5	145	2.8
B22 Diseases of the nervous system	3	6.4	184	1.6
B32 Other diseases of respiratory system	3	6.4	797	0.4
Other	5	10.6	—	—
15-24 years	154	100.0	—	—
BE47 Transport accidents	66	42.9	220	30.0
BE54 Suicide and self-inflicted injury	32	20.8	145	22.1
BE52 Other accidents late effects	16	10.4	102	15.7
B08-B14 Malignant neoplasms	9	5.8	1,971	0.5
Other	31	20.1	—	—
25-34 years	165	100.0	—	—
BE47 Transport accidents	46	27.9	220	20.9
BE54 Suicide and self-inflicted injury	39	23.6	145	26.9
B08-B14 Malignant neoplasms	18	10.9	1,971	0.9
BE52 Other accidents, late effects	10	6.1	102	9.8
Other	52	31.5	—	—
35-44 years	214	100.0	—	—
B08-B14 Malignant neoplasms	59	27.6	1,971	3.0
BE54 Suicide and self-inflicted injury	20	9.3	145	13.8
B27 Ischaemic heart disease	19	8.9	1,980	1.0
BE47 Transport accidents	17	7.9	220	7.7
B22 Diseases of the nervous system	14	6.5	184	7.6
B34 Other parts of digestive system	12	5.6	295	4.1
BE52 Other accidents, late effects	12	5.6	102	11.8
Other	61	28.5	—	—
45-64 years	1,190	100.0	—	—
B08-B14 Malignant neoplasms	468	39.3	1,971	23.7
B27 Ischaemic heart disease	267	22.4	1,980	13.5
B32 Other diseases of respiratory system	65	5.5	797	8.2
Other	390	32.8	—	—
65 +	6,156	100.0	—	—
B27 Ischaemic heart disease	1,688	27.4	1,980	85.3
B08-B14 Malignant neoplasms	1,414	23.0	1,971	71.7
B32 Other diseases of respiratory system	706	11.5	797	88.6
B29 Cerebrovascular disease	589	9.6	648	90.9
B28 Pulmonary and other heart disease	490	8.0	559	87.7
Other	1,269	20.6	—	—

Mortality (Continued)

Table 21. Deaths from Leading Causes by Sex, with Per Cent Distribution and Rates Per 100,000 Population, Saskatchewan, 1987 and 1988

Causes of death ("B" List—9th Revision)	Number		Per cent		Rate†	
	1987	1988	1987	1988	1987	1988
	Both sexes					
All causes of death	7,808	8,100	100.0	100.0	746.9	775.7
B27 Ischaemic heart disease	1,858	1,980	23.8	24.4	177.7	189.6
B08-B14 Malignant neoplasms	1,934	1,971	24.8	24.3	185.0	188.8
B32 Other diseases of respiratory system	678	797	8.7	9.8	64.9	76.3
B29 Cerebrovascular disease	650	648	8.3	8.0	62.2	62.1
B28 Pulmonary and other heart disease	556	559	7.1	6.9	53.2	53.5
B34 Other parts of digestive system	314	295	4.0	3.6	30.0	28.3
B30 Other diseases of circulatory system	199	221	2.5	2.7	19.0	21.2
BE47 Transport accidents	259	220	3.3	2.7	24.8	21.1
B22 Diseases of the nervous system	153	184	2.0	2.3	14.6	17.6
B18 Endocrine and metabolic diseases	186	178	2.4	2.2	17.8	17.0
	Male					
All causes of death	4,332	4,690	100.0	100.0	825.3	895.2
B27 Ischaemic heart disease	1,084	1,223	25.0	26.1	206.5	233.4
B08-B14 Malignant neoplasms	1,108	1,144	25.6	24.4	211.1	218.4
B32 Other diseases of respiratory system	391	525	9.0	11.2	74.5	100.2
B29 Cerebrovascular disease	275	296	6.3	6.3	52.4	56.5
B28 Pulmonary and other heart disease	265	284	6.1	6.1	50.5	54.2
BE47 Transport accidents	188	152	4.3	3.2	35.8	29.0
B34 Other parts of digestive system	153	146	3.5	3.1	29.1	27.9
B30 Other diseases of circulatory system	111	131	2.6	2.8	21.1	25.0
BE54 Suicide and self-inflicted injury	103	121	2.4	2.6	19.6	23.1
BE52 Other accidents, late effects	85	—	2.0	—	16.2	—
B22 Diseases of the nervous system	—	97	—	2.1	—	18.5
	Female					
All causes of death	3,476	3,410	100.0	100.0	667.8	655.5
B08-B14 Malignant neoplasms	826	827	23.8	24.3	158.7	159.0
B27 Ischaemic heart disease	774	757	22.3	22.2	148.7	145.5
B29 Cerebrovascular disease	375	352	10.8	10.3	72.0	67.7
B28 Pulmonary and other heart disease	291	275	8.4	8.1	55.9	52.9
B32 Other diseases of respiratory system	287	272	8.3	8.0	55.1	52.3
B34 Other parts of digestive system	161	149	4.6	4.4	30.9	28.6
B18 Endocrine and metabolic diseases	103	103	3.0	3.0	19.8	19.8
B30 Other diseases of circulatory system	88	90	2.5	2.6	16.9	17.3
B22 Diseases of the nervous system	81	87	2.3	2.6	15.6	16.7
BE47 Transport accidents	71	68	2.0	2.0	13.6	13.1

† *Rates were calculated using the Health Insurance Registration Covered Population as of June 30, 1987 and 1988.*

Mortality (Continued)

Table 22. Life Years Lost* and Average Age of Decedents by Cause of Death, Saskatchewan, 1988

Cause of death ("B" List—9th Revision)	Total life years lost					Average age of decedents		Life years lost per decedent	
	Number			Per cent					
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female
2 Tuberculosis	129.81	115.12	14.69	88.68	11.32	71.39	72.50	12.79	14.69
3 Other bacterial diseases	349.08	61.49	287.59	17.61	82.39	84.03	73.05	6.83	16.92
4 Viral diseases	227.02	141.89	85.13	62.50	37.50	29.17	70.98	47.30	17.03
7 Other infectious, parasitic diseases	125.59	73.66	51.93	58.65	41.35	0.11	69.17	73.66	17.31
8 Malignant neoplasm of lip, oral cavity, pharynx	484.03	311.77	172.26	64.41	35.59	62.32	77.08	19.49	13.25
9 Malignant neoplasm of digestive organs, peritoneum	7,127.85	3,579.89	3,547.96	50.22	49.78	73.43	73.85	12.30	15.03
10 Malignant neoplasm of respiratory and related organs	7,656.16	4,674.97	2,981.19	61.06	39.84	70.47	66.98	13.71	19.74
11 Malignant neoplasm of bone, skin, breast	3,752.50	595.37	3,157.13	15.87	84.13	59.21	68.71	22.90	19.02
12 Malignant neoplasm of genitourinary organs	5,098.03	2,812.13	2,285.90	55.16	44.84	75.26	68.58	11.25	19.21
13 Malignant neoplasm of other and unspecified sites	2,885.03	1,583.82	1,301.21	54.90	45.10	66.31	69.56	16.85	18.33
14 Malignant neoplasm of lymph and haemopoietic tissue	3,180.40	1,904.57	1,275.83	59.88	40.12	69.69	70.05	15.12	17.97
15 Benign neoplasm	145.02	59.67	85.35	41.15	58.85	72.50	55.83	11.93	28.45
17 Other and unspecified neoplasm	268.49	131.10	137.39	48.83	51.17	66.25	75.48	16.39	13.74
18 Endocrine and metabolic diseases	2,207.22	872.75	1,334.47	39.54	60.46	76.14	77.97	11.64	12.96
19 Nutritional deficiencies	76.23	28.28	47.95	37.10	62.90	83.60	79.95	7.07	11.99
20 Diseases of blood and blood-forming organs	716.17	234.15	482.02	32.69	67.31	74.43	70.17	12.32	19.28
21 Mental disorders	877.00	408.26	468.74	46.55	53.45	74.99	81.55	12.01	11.16
22 Diseases of the nervous system	3,626.39	1,913.80	1,712.59	52.77	47.23	64.58	69.52	19.73	19.68
25 Rheumatic fever/heart disease	210.38	66.94	143.44	31.82	68.18	65.00	79.21	16.73	11.03
26 Hypertensive disease	578.77	280.97	297.80	48.55	51.45	76.34	81.09	10.41	10.27
27 Ischaemic heart disease	22,488.56	14,323.78	8,164.78	63.69	36.31	74.59	80.71	11.71	10.79
28 Pulmonary and other heart disease	6,264.80	3,164.39	3,100.41	50.51	49.49	76.56	81.06	11.14	11.27
29 Cerebrovascular disease	6,570.50	2,913.40	3,657.10	44.34	55.66	78.31	81.96	9.84	10.39
30 Other diseases of the circulatory system	2,303.36	1,357.95	945.41	58.96	41.04	77.10	81.65	10.37	10.50
31 Diseases of the upper respiratory tract	149.78	72.52	77.26	48.42	51.58	57.50	4.50	24.17	77.26

Mortality (Continued)

Table 22. Life Years Lost* and Average Age of Decedents by Cause of Death, Saskatchewan, 1988 (Continued)

Cause of death ("B" List—9th Revision)	Total life years lost					Average age of decedents		Life years lost per decedent	
	Number			Per cent					
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female
32 Other diseases of the respiratory system	9,192.57	5,608.86	3,583.71	61.02	38.98	77.34	78.19	10.68	13.18
33 Oral cavity, salivary glands, jaws	34.85	34.85	0.00	100.00	0.00	42.50	—	34.85	—
34 Other parts of digestive system	4,059.78	2,124.47	1,935.31	52.33	47.67	70.93	77.87	14.55	12.99
35 Diseases of urinary system	1,533.13	868.52	664.61	56.65	43.35	72.82	77.95	14.72	12.78
36 Diseases of male genital organs	59.38	59.38	0.00	100.00	0.00	82.70	—	7.42	—
37 Diseases of female genital organs	8.31	0.00	8.31	0.00	100.00	—	82.50	—	8.31
42 Diseases of skin	51.05	25.07	25.98	49.11	50.89	79.17	83.30	8.36	8.66
43 Musculoskeletal and connective tissue	463.39	172.98	290.41	37.33	62.67	73.18	73.03	13.31	16.13
44 Congenital anomalies	4,068.39	2,218.18	1,850.21	54.52	45.48	9.50	13.18	65.24	68.53
45 Conditions in perinatal period	4,060.31	2,209.80	1,850.51	54.42	45.58	0.11	0.17	73.66	80.46
46 Symptoms and ill-defined conditions	2,450.22	1,364.46	1,085.76	55.69	44.31	48.03	59.20	35.91	31.02
E 47 Transport accidents	9,379.13	6,238.84	3,140.29	66.52	33.48	37.18	37.63	41.04	46.18
E 48 Accidental poisoning	602.37	342.35	260.02	56.83	43.17	47.50	30.50	31.12	52.00
E 49 Misadventures during medical care	40.37	0.00	40.37	0.00	100.00	—	42.50	—	40.37
E 50 Accidental falls	1,429.48	960.37	469.11	67.18	32.82	66.97	85.43	18.47	8.53
E 51 Accidents caused by fires and flames	918.16	644.82	273.34	70.23	29.77	35.23	28.50	42.99	54.67
E 52 Other accidents, late effects	3,904.84	3,322.34	582.50	85.08	14.92	39.12	52.83	39.55	32.36
E 53 Effects of drugs and medication	14.69	0.00	14.69	0.00	100.00	—	72.50	—	14.69
E 54 Suicide and self-inflicted injury	5,709.06	4,747.84	961.22	83.16	16.84	38.76	43.33	39.24	40.05
E 55 Homicide and intentional injury	840.18	585.08	255.10	69.64	30.36	41.25	31.50	36.57	51.02
E 56 Other violence	312.22	195.78	116.44	62.71	37.29	46.67	55.00	32.63	29.11
Total	126,630.05	73,406.63	53,223.42	57.97	42.03	69.84	74.61	15.65	15.61

* *Based on "Life Tables, Canada and the Provinces, 1985-1987", prepared by Statistics Canada, Ottawa, Ontario, September, 1989.*

Mortality (Continued)

Table 23. Deaths by Age and Sex According to Intermediate List of Mortality Causes with Rates per 100,000 Population, Saskatchewan, 1988

Cause of death		All ages			
		Both sexes			
		Number	Rate	Male	Female
All causes		8,100	775.7	4,690	3,410
A 7	Tuberculosis of respiratory system	6	0.6	6	—
A 8	Other tuberculosis	4	0.4	3	1
A 13	Meningococcal infection	1	0.1	—	1
A 15	Septicemia	23	2.2	7	16
A 16	All other bacterial diseases	2	0.2	2	—
A 22	Viral hepatitis	1	0.1	1	—
A 23	Other viral diseases	7	0.7	2	5
A 35	Late effects of acute poliomyelitis	1	0.1	—	1
A 36	All other infectious, parasitic diseases and their late effects	3	0.3	1	2
A 37	Malignant neoplasm of lip	2	0.2	1	1
A 38	Malignant neoplasm of tongue	8	0.8	3	5
A 39	Malignant neoplasm of pharynx	10	1.0	8	2
A 40	Malignant neoplasms of other and ill-defined sites within the lip, oral cavity, and pharynx	9	0.9	4	5
A 41	Malignant neoplasm of esophagus	29	2.8	22	7
A 42	Malignant neoplasm of stomach	80	7.7	53	27
A 43	Malignant neoplasm of small intestine, inc. duod.	6	0.6	—	6
A 44	Malignant neoplasms of hepatic and splenic flexures and transverse colon	3	0.3	1	2
A 45	Malignant neoplasm of descending colon	1	0.1	1	—
A 46	Malignant neoplasm of signoid colon	18	1.7	13	5
A 47	Malignant neoplasms of caecum, appendix, and ascending colon	24	2.3	15	9
A 48	Malignant neoplasms other and colon, unspecified	115	11.0	55	60
A 49	Malignant neoplasms of rectum, rectosigmoid junction and anus	60	5.7	35	25
A 50	Malignant neoplasms of liver, primary	5	0.5	2	3
A 51	Malignant neoplasm of intrahepatic bile ducts	4	0.4	3	1
A 52	Malignant neoplasm of liver, not specified as primary or secondary	20	1.9	10	10
A 53	Malignant neoplasms of gallbladder and extrahepatic bile ducts	27	2.6	10	17
A 54	Malignant neoplasms of pancreas	91	8.7	46	45
A 55	Malignant neoplasms of retroperitoneum, peritoneum and other ill-defined sites	44	4.2	25	19
A 56	Malignant neoplasm of larynx	21	2.0	17	4
A 57	Malignant neoplasms of trachea, bronchus, and lung	465	44.5	324	141
A 58	Malignant neoplasms of all other and ill-defined sites within respiratory system	6	0.6	—	6
A 59	Malignant neoplasms of bone and articular cartilage	3	0.3	2	1
A 60	Malignant neoplasms of connective and other soft tissue	12	1.1	9	3
A 61	Melanoma of skin	16	1.5	8	8
A 62	Other malignant neoplasms of skin	8	0.8	6	2
A 63	Malignant neoplasm of female breast	152	14.6	—	152
A 64	Malignant neoplasm of male breast	1	0.1	1	—
A 65	Malignant neoplasm of cervix uteri	15	1.4	—	15
A 66	Malignant neoplasms of other parts of uterus	17	1.6	—	17
A 67	Malignant neoplasms of ovary and other uterine adnexa	53	5.1	—	53
A 68	Malignant neoplasms of other and unspecified female genital organs	3	0.3	—	3
A 69	Malignant neoplasm of prostate	174	16.7	174	—
A 70	Malignant neoplasm of testis	3	0.3	3	—
A 71	Penis and other male genital organs	3	0.3	3	—
A 72	Malignant neoplasm of bladder	53	5.1	38	16

Mortality (Continued)

Age group												
Under 15		15-24		25-44		45-64		65-74		75 +		
M	F	M	F	M	F	M	F	M	F	M	F	
130	91	114	40	260	119	770	420	1,118	638	2,298	2,102	—
—	—	—	—	—	—	2	—	2	—	2	—	A 7
—	—	—	—	—	—	—	—	2	1	1	—	A 8
—	—	—	1	—	—	—	—	—	—	—	—	A 13
—	—	—	—	—	1	—	1	1	5	6	9	A 15
—	—	—	—	—	—	—	—	—	—	2	—	A 16
—	—	—	—	1	—	—	—	—	—	—	—	A 22
—	—	1	—	1	—	—	2	—	2	—	1	A 23
—	—	—	—	—	—	—	—	—	1	—	—	A 35
1	—	—	—	—	—	—	1	—	1	—	—	A 36
—	—	—	—	—	—	—	—	1	—	—	1	A 37
—	—	—	—	—	—	1	—	1	2	1	3	A 38
—	—	—	—	2	—	4	1	1	—	1	1	A 39
—	—	—	—	—	—	2	1	1	1	1	3	A 40
—	—	—	—	—	—	7	2	7	—	8	5	A 41
—	—	—	—	—	1	8	5	16	4	29	17	A 42
—	—	—	—	—	1	—	2	—	1	—	2	A 43
—	—	—	—	—	—	—	1	1	—	—	1	A 44
—	—	—	—	—	—	—	—	—	—	1	—	A 45
—	—	—	—	—	—	3	—	3	1	7	4	A 46
—	—	—	—	—	—	5	1	4	3	6	5	A 47
—	—	—	—	1	—	11	15	16	22	27	23	A 48
—	—	—	—	—	1	7	1	15	12	13	11	A 49
—	—	—	—	—	—	—	1	2	1	—	1	A 50
—	—	—	—	—	—	—	—	1	1	2	—	A 51
—	—	—	—	—	—	3	—	2	5	5	5	A 52
—	—	—	—	—	2	—	3	2	4	8	8	A 53
—	—	—	—	1	—	11	12	11	14	23	19	A 54
—	—	—	—	1	—	6	3	5	5	13	11	A 55
—	—	—	—	1	—	4	3	9	—	3	1	A 56
—	—	—	—	4	5	85	50	127	53	108	33	A 57
—	—	—	—	—	—	—	2	—	3	—	1	A 58
—	—	—	1	—	—	1	—	1	—	—	—	A 59
—	—	1	—	3	1	1	—	3	1	1	1	A 60
—	—	—	—	4	4	—	1	2	1	2	2	A 61
—	—	—	—	—	—	3	—	—	—	3	2	A 62
—	—	—	—	—	12	—	40	—	40	—	60	A 63
—	—	—	—	—	—	—	—	—	—	1	—	A 64
—	—	—	—	—	5	—	6	—	1	—	3	A 65
—	—	—	—	—	—	—	3	—	7	—	7	A 66
—	—	—	—	—	4	—	22	—	17	—	10	A 67
—	—	—	—	—	—	—	—	—	—	—	3	A 68
—	—	—	—	—	—	20	—	41	—	113	—	A 69
—	—	1	—	1	—	1	—	—	—	—	—	A 70
—	—	—	—	—	—	1	—	—	—	2	—	A 71
—	—	—	—	1	—	3	2	13	4	20	10	A 72

Mortality (Continued)

Table 23. Deaths by Age and Sex According to Intermediate List of Mortality Causes with Rates per 100,000 Population, Saskatchewan, 1988 (Continued)

	Cause of death	All ages			
		Both sexes			
		Number	Rate	Male	Female
A 73	Malignant neoplasm of kidney and other unspecified urinary organs	48	4.6	33	15
A 74	Malignant neoplasm of eye	3	0.3	2	1
A 75	Malignant neoplasm of brain	49	4.7	32	17
A 76	Malignant neoplasms of other and unspecified parts of nervous system	1	0.1	1	—
A 77	Malignant neoplasms of thyroid gland and other endocrine glands and related structures	9	0.9	5	4
A 78	Malignant neoplasms of all other and unspecified sites	103	9.9	54	49
A 79	Lymphosarcoma and reticulosarcoma	19	1.8	15	4
A 80	Hodgkins disease	5	0.5	2	3
A 81	Other malignant neoplasms of lymphoid and histiocytic tissue	49	4.7	28	21
A 82	Multiple myeloma and immunoproliferative neoplasms	40	3.8	23	17
A 83	Lymphoid leukemia	30	2.9	21	9
A 84	Myeloid leukemia	25	2.4	15	10
A 85	Monocytic leukemia	2	0.2	2	—
A 86	Other and unspecified leukemia	27	2.6	20	7
A 88	Malignant neoplasm of eye, brain, nervous system	3	0.3	3	—
A 89	All other and unspecified sites	5	0.5	2	3
A 92	Neoplasms of uncertain behavior	10	1.0	5	5
A 93	Neoplasms of unspecified nature	8	0.8	3	5
A 94	Disorders of thyroid gland	3	0.3	—	3
A 95	Diabetes mellitus	136	13.0	57	79
A 96	Disorders of pituitary and hypothalamic glands	1	0.1	—	1
A 99	Cystic fibrosis	2	0.2	2	—
A 100	Obesity	5	0.5	2	3
A 101	All other indocrine and metabolic diseases and immunity disorders	31	3.0	14	17
A 103	Other protein-calorie malnutrition	7	0.7	3	4
A 104	Other nutritional deficiencies	1	0.1	1	—
A 105	Deficienct anemias	3	0.3	—	3
A 106	Hemolytic anemias	1	0.1	—	1
A 107	Aplastic anemia	6	0.6	2	4
A 108	Other and unspecified anemias	9	0.9	1	8
A 109	Purpura and hemorrhagic conditions	5	0.5	3	2
A 110	All other diseases of blood and blood-forming organs	20	1.9	13	7
A 111	Senile and presenile organic psychotic conditions	21	2.0	9	12
A 112	Alcoholic psychoses	2	0.2	1	1
A 113	All other psychoses	9	0.9	2	7
A 114	Alcohol dependence syndrome	13	1.2	13	—
A 116	Other neurotic, personality, and nonpsychotic mental disorders	31	3.0	9	22
A 118	Meningitis	2	0.2	2	—
A 119	Parkinsons disease	30	2.9	14	16
A 120	Other hereditary and degenerative diseases of the central nervous system	89	8.5	43	46
A 121	Multiple sclerosis	13	1.2	6	7
A 122	Infantile cerebral palsy	3	0.3	2	1
A 123	Epilepsy	14	1.3	10	4
A 124	Other disorders of nervous system	33	3.2	20	13
A 127	Acute rheumatic fever	1	0.1	—	1
A 128	Diseases of mitral valve	11	1.1	2	9
A 130	Diseases of mitral and aortic valves	1	0.1	1	—
A 131	All other chronic rheumatic heart disease	4	0.4	1	3
A 132	Essential hypertension	9	0.9	6	3

Mortality (Continued)

Age group												
Under 15		15-24		25-44		45-64		65-74		75+		
M	F	M	F	M	F	M	F	M	F	M	F	
—	—	—	—	2	—	8	3	13	4	10	8	A 73
—	—	—	—	—	—	1	1	1	—	—	—	A 74
—	—	—	—	3	—	17	8	7	4	5	5	A 75
—	—	—	—	—	—	1	—	—	—	—	—	A 76
1	—	—	—	—	1	—	1	4	—	—	2	A 77
—	1	1	—	3	1	11	15	22	9	17	23	A 78
—	—	1	—	1	—	4	—	3	4	6	—	A 79
—	—	—	—	1	2	—	—	1	—	—	1	A 80
—	—	—	—	2	—	9	4	7	8	10	9	A 81
—	—	—	—	—	—	3	4	9	3	11	10	A 82
—	1	1	—	2	—	1	2	6	1	11	5	A 83
—	—	—	1	3	—	1	4	2	3	9	2	A 84
—	—	1	—	—	—	1	—	—	—	—	—	A 85
—	—	1	—	1	—	3	2	6	—	9	5	A 86
—	—	—	—	—	—	—	—	—	—	3	—	A 88
—	—	—	—	—	—	1	2	1	1	—	—	A 89
—	—	—	—	—	—	1	1	2	1	2	3	A 92
—	—	—	—	—	—	2	1	1	1	—	3	A 93
—	—	—	—	—	—	—	1	—	—	—	2	A 94
—	—	1	—	1	5	6	8	10	16	39	50	A 95
—	—	—	—	—	—	—	—	—	1	—	—	A 96
—	—	—	—	2	—	—	—	—	—	—	—	A 99
—	—	—	—	—	—	2	—	—	1	—	2	A 100
—	—	—	—	1	—	2	1	2	1	9	15	A 101
—	—	—	—	—	—	—	1	—	—	3	3	A 103
—	—	—	—	—	—	—	—	—	—	1	—	A 104
—	—	—	—	—	—	—	—	—	1	—	2	A 105
—	—	—	—	—	—	—	—	—	—	—	1	A 106
1	—	—	—	—	—	—	—	—	1	1	3	A 107
—	—	—	—	—	—	—	—	—	1	1	7	A 108
—	—	—	—	—	1	—	—	—	—	3	1	A 109
—	—	—	1	—	3	1	2	5	—	7	1	A 110
—	—	—	—	—	—	—	—	—	—	9	12	A 111
—	—	—	—	—	—	1	1	—	—	—	—	A 112
—	—	—	—	—	—	—	—	—	—	2	7	A 113
—	—	—	—	2	—	4	—	4	—	3	—	A 114
—	—	—	1	—	1	1	—	1	3	7	17	A 116
—	—	—	—	1	—	—	—	1	—	—	—	A 118
—	—	—	—	—	—	—	—	3	4	11	12	A 119
—	2	—	1	4	1	4	5	10	7	25	30	A 120
—	—	—	—	1	1	4	5	—	—	1	1	A 121
1	1	—	—	1	—	—	—	—	—	—	—	A 122
—	1	1	—	4	1	2	1	—	1	3	—	A 123
3	1	2	1	5	2	5	2	—	3	5	4	A 124
—	—	—	—	—	—	—	—	—	—	—	1	A 127
—	—	—	—	—	—	1	—	1	2	—	7	A 128
—	—	—	—	—	—	—	—	1	—	—	—	A 130
—	—	—	—	—	—	—	—	1	2	—	1	A 131
—	—	—	—	—	—	1	—	1	1	4	2	A 132

Mortality (Continued)

Table 23. Deaths by Age and Sex According to Intermediate List of Mortality Causes with Rates per 100,000 Population, Saskatchewan, 1988 (Continued)

Cause of death		All ages			
		Both sexes			
		Number	Rate	Male	Female
A 133	Hypertensive heart disease	28	2.7	13	15
A 134	Hypertensive renal disease	15	1.4	6	9
A 135	Hypertensive heart and renal diseases	4	0.4	2	2
A 136	Acute myocardial infarction	1,239	118.7	790	449
A 137	Ischaemic heart disease	13	1.2	9	4
A 138	Angina pectoris	3	0.3	2	1
A 139	All other forms of chronic ischaemic heart disease	725	69.4	422	303
A 140	Diseases of pulmonary circulation	60	5.7	29	31
A 141	Acute and subacute endocarditis	4	0.4	3	1
A 142	Acute pericarditis, acute myocarditis, and other diseases of pericardium	4	0.4	1	3
A 143	Mitral valve disorders	11	1.1	6	5
A 144	Aortic valve disorders	30	2.9	16	14
A 145	Other diseases of endocardium	9	0.9	5	4
A 146	Heart failure	224	21.5	116	108
A 147	Myocarditis, unspecified and myocardial degeneration	10	1.0	2	8
A 148	All other and ill-defined forms of heart disease	207	19.8	106	101
A 149	Subarachnoid hemorrhage	34	3.3	12	22
A 150	Intracerebral and other intracranial haemorrhage	89	8.5	46	43
A 151	Occlusion and stenosis of precerebral arteries	3	0.3	2	1
A 152	Cerebral thrombosis and unspecified occlusion of cerebral arteries	83	7.9	50	33
A 153	Cerebral embolism	1	0.1	1	—
A 154	Acute but ill-defined cerebrovascular disease	384	36.8	170	214
A 155	Other and late effects of cerebrovascular diseases	54	5.2	15	39
A 156	Atherosclerosis	74	7.1	40	34
A 157	Aortic aneurysm	90	8.6	62	28
A 158	All other diseases of arteries, arterioles, and capillaries	37	3.5	20	17
A 159	Phlebitis, thrombophlebitis, and venous embolism and thrombosis	17	1.6	7	10
A 160	All other diseases of veins and lymphatics, and other diseases of circulatory system	3	0.3	2	1
A 161	Upper respiratory infections	2	0.2	2	—
A 162	Other diseases of upper respiratory	2	0.2	1	1
A 163	Acute bronchitis, bronchiolitis	1	0.1	1	—
A 164	Viral pneumonia	3	0.3	2	1
A 165	Pneumococcal and other bacterial pneumonia	28	2.7	16	12
A 166	Bronchopneumonia, organism unspecified	137	13.1	83	54
A 167	Pneumonia due to other and unspecified organism	201	19.3	118	83
A 168	Influenza	23	2.2	9	14
A 169	Bronchitis, not specified as acute or chronic	10	1.0	5	5
A 170	Chronic bronchitis	30	2.9	24	6
A 171	Emphysema	58	5.6	51	7
A 172	Asthma	25	2.4	12	13
A 173	Bronchiectasis and extrinsic allergic alveolitis	5	0.5	2	3
A 174	Chronic airways obstruction, not elsewhere classified	211	20.2	165	46
A 175	Pneumoconioses and other lung disease due to external agents	11	1.1	3	8
A 176	Empyema and abscess of lung	3	0.3	1	2
A 177	Pleurisy	3	0.3	2	1
A 178	All other diseases of respiratory system	48	4.6	31	17
A 179	Disorder of oral cavity, salivary	1	0.1	1	—
A 180	Gastric ulcer	9	0.9	4	5
A 181	Duodenal ulcer	17	1.6	8	9
A 182	Peptic ulcer, site unspecified	12	1.1	6	6

Mortality (Continued)

Age group												
Under 15		15-24		25-44		45-64		65-74		75+		
M	F	M	F	M	F	M	F	M	F	M	F	
—	—	—	—	—	—	4	1	4	1	5	13	A 133
—	—	—	—	—	—	—	—	—	2	6	7	A 134
—	—	—	—	—	—	—	—	—	1	2	1	A 135
—	—	—	1	19	3	148	38	251	94	372	313	A 136
—	—	—	—	—	—	2	—	3	1	4	3	A 137
—	—	—	—	—	—	—	—	1	—	1	1	A 138
—	—	—	—	1	1	68	11	92	47	261	244	A 139
1	—	—	1	—	—	2	3	11	9	15	18	A 140
—	—	—	—	—	—	—	—	2	1	1	—	A 141
—	1	—	1	—	—	—	—	1	1	—	—	A 142
—	—	—	—	—	—	—	1	3	—	3	4	A 143
—	—	—	—	—	1	3	3	4	1	9	9	A 144
—	—	—	—	—	—	1	1	2	—	2	3	A 145
—	—	—	—	1	—	4	—	17	9	94	99	A 146
—	1	—	1	—	—	—	—	2	1	—	5	A 147
—	1	1	—	6	2	27	6	19	13	53	79	A 148
—	—	—	1	3	1	2	8	4	9	3	3	A 149
—	—	—	—	—	—	6	6	15	5	23	25	A 150
—	—	—	—	1	—	—	1	—	—	1	—	A 151
1	—	—	—	—	1	8	3	8	2	33	27	A 152
—	—	—	—	—	—	—	—	—	—	1	—	A 153
—	—	—	—	1	—	6	3	33	16	130	195	A 154
—	—	—	—	—	—	1	—	3	1	11	38	A 155
—	—	—	—	—	—	2	1	4	—	34	33	A 156
—	—	—	—	—	—	11	3	18	4	33	21	A 157
—	—	—	—	—	1	2	—	4	2	14	14	A 158
—	—	—	—	1	1	3	2	1	3	2	4	A 159
—	—	—	—	—	—	—	—	—	1	2	—	A 160
—	—	—	—	1	—	—	—	—	—	1	—	A 161
—	1	—	—	—	—	—	—	1	—	—	—	A 162
1	—	—	—	—	—	—	—	—	—	—	—	A 163
1	1	—	—	—	—	—	—	—	—	1	—	A 164
—	—	—	—	—	1	2	1	1	2	13	8	A 165
3	1	—	—	—	—	2	3	15	3	63	47	A 166
1	2	—	—	—	1	9	2	17	14	91	64	A 167
—	—	—	1	—	—	—	—	3	1	6	12	A 168
—	1	—	—	1	—	1	—	—	—	3	4	A 169
—	—	—	—	—	—	3	—	5	1	16	5	A 170
—	—	—	—	1	—	7	1	18	3	25	3	A 171
—	1	1	—	—	1	5	2	3	3	3	6	A 172
1	—	—	—	—	—	—	1	—	—	1	2	A 173
—	—	—	1	—	—	11	5	48	18	106	22	A 174
—	—	—	—	—	—	—	1	1	—	2	7	A 175
—	—	—	—	—	—	—	—	—	1	1	1	A 176
—	—	—	—	—	—	—	1	1	—	1	—	A 177
2	—	—	1	2	—	6	2	6	6	15	8	A 178
—	—	—	—	1	—	—	—	—	—	—	—	A 179
—	—	—	—	—	—	—	1	1	1	3	3	A 180
—	—	—	—	1	—	2	—	2	1	3	8	A 181
—	—	—	—	—	—	—	—	1	1	5	5	A 182

Mortality (Continued)

Table 23. Deaths by Age and Sex According to Intermediate List of Mortality Causes with Rates per 100,000 Population, Saskatchewan, 1988 (Continued)

	Cause of death	All ages			
		Both sexes			
		Number	Rate	Male	Female
A 183	Gastritis and duodenitis	6	0 6	2	4
A 184	Appendicitis	3	0 3	1	2
A 185	Hernia of abdominal cavity and intestinal obstruction without mention of hernia	27	2 6	10	17
A 186	Regional enteritis and idiopathic proctocolitis	1	0 1	—	1
A 187	Gastroenteritis and colitis	38	3 6	13	25
A 188	Diverticular of intestine	11	1 1	6	5
A 189	Chronic liver disease and cirrhosis, specified as alcoholic	34	3 3	28	6
A 190	Chronic hepatitis and biliary cirrhosis	7	0 7	1	6
A 191	Other, chronic liver disease and cirrhosis without mention of alcohol	27	2 6	16	11
A 192	Cholelithiasis and other disorders of gallbladder	20	1 9	10	10
A 193	All other diseases of digestive system	83	7 9	41	42
A 195	Nephrotic syndrome	1	0 1	1	—
A 196	Chronic glomerulonephritis, nephritis, nephropathy, and renal sclerosis unspecified	2	0 2	—	2
A 197	Renal failure and other disorders resulting from impaired function	87	8 3	49	38
A 198	Infections of kidney	4	0 4	—	4
A 200	Other diseases of urinary system	17	1 6	9	8
A 201	Hyperplasia of prostate	7	0 7	7	—
A 202	Other diseases of male genital organs	1	0 1	1	—
A 204	Other diseases of female genital organs	1	0 1	—	1
A 218	Other diseases of skin and subcutaneous tissue	6	0 6	3	3
A 219	Rheumatoid arthritis and other inflammatory polyarthropathies	7	0 7	3	4
A 220	Arthropathies and related disorders	14	1 3	4	10
A 221	Dorsopathies	2	0 2	2	—
A 222	Rheumatism, excluding the back	2	0 2	2	—
A 223	Ostheopathies, chondropathies, and acquired musculoskeletal deformities	6	0 6	2	4
A 225	All other congenital anomalies of nervous system	10	1 0	7	3
A 226	Congenital anomalies of heart	20	1 9	14	6
A 227	Other congenital anomalies of circulatory system	5	0 5	2	3
A 228	All other congenital anomalies	26	2 5	11	15
A 229	Birth trauma	3	0 3	2	1
A 230	Intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome	12	1 1	8	4
A 231	Other conditions originating in the perinatal period	38	3 6	20	18
A 232	Senility without mention of psychosis	21	2 0	9	12
A 233	Symptoms, signs and other ill-defined conditions	52	5 0	29	23
AE 234	Railway accidents	4	0 4	3	1
AE 235	Involving collision with train	5	0 5	5	—
AE 236	Involving collision with another motor vehicle	88	8 4	57	31
AE 237	Involving collision with pedestrian	24	2 3	15	9
AE 238	Involving collision with other vehicle or object	11	1 1	7	4
AE 239	Not involving collision on highway	54	5 2	40	14
AE 240	Motor vehicle traffic accident of unspecified nature	20	1 9	14	6
AE 241	Motor vehicle nontraffic accident	6	0 6	4	2
AE 242	Other road vehicle accidents	1	0 1	1	—
AE 243	Water transport accidents	2	0 2	2	—
AE 244	Air and space transport accidents	4	0 4	3	1
AE 245	Vehicle accidents not elsewhere classifiable	1	0 1	1	—
AE 246	Accidental poisoning by drugs, medicaments, and biologicals	5	0 5	3	2
AE 247	Accidental poisoning by other solid or liquid substances	3	0 3	2	1
AE 248	Accidental poisoning by gases and vapors	8	0 8	6	2

Mortality (Continued)

Age group												
Under 15		15-24		25-44		45-64		65-74		75+		
M	F	M	F	M	F	M	F	M	F	M	F	
—	—	—	—	—	—	1	—	—	2	1	2	A 183
—	1	—	—	—	—	—	—	1	—	—	1	A 184
—	—	1	—	—	—	2	1	2	2	5	14	A 185
—	—	—	—	—	—	—	—	—	—	—	1	A 186
—	—	—	—	—	—	1	2	5	4	7	19	A 187
—	—	—	—	—	—	—	—	1	1	5	4	A 188
—	—	—	—	4	1	16	3	7	2	1	—	A 189
—	—	—	—	—	—	—	—	1	5	—	1	A 190
—	—	—	—	2	1	8	6	2	—	4	4	A 191
—	—	—	—	—	—	1	—	2	2	7	8	A 192
1	1	—	—	3	1	3	4	8	5	26	31	A 193
—	—	—	—	—	—	1	—	—	—	—	—	A 195
—	—	—	1	—	—	—	—	—	1	—	—	A 196
3	—	2	—	1	1	2	3	6	6	35	28	A 197
—	—	—	—	—	1	—	—	—	—	—	3	A 198
—	—	—	—	1	—	2	—	3	1	3	7	A 200
—	—	—	—	—	—	—	—	1	—	6	—	A 201
—	—	—	—	—	—	—	—	—	—	1	—	A 202
—	—	—	—	—	—	—	—	—	—	—	1	A 204
—	—	—	—	—	—	—	—	1	—	2	3	A 218
—	—	—	—	—	—	1	—	—	1	2	3	A 219
—	—	—	—	—	—	1	2	—	3	3	5	A 220
—	—	—	—	—	—	—	—	1	—	1	—	A 221
—	—	—	—	—	—	1	—	1	—	—	—	A 222
—	—	—	—	—	2	—	—	1	—	1	2	A 223
5	1	—	—	1	2	1	—	—	—	—	—	A 225
11	6	1	—	1	—	1	—	—	—	—	—	A 226
1	2	1	—	—	—	—	—	—	1	—	—	A 227
9	12	—	—	—	—	1	1	1	2	—	—	A 228
2	1	—	—	—	—	—	—	—	—	—	—	A 229
8	4	—	—	—	—	—	—	—	—	—	—	A 230
20	18	—	—	—	—	—	—	—	—	—	—	A 231
—	—	—	—	—	—	—	—	—	—	9	12	A 232
15	11	—	—	3	—	—	1	1	1	10	10	A 233
—	—	—	—	2	—	1	—	—	—	—	1	AE 234
—	—	1	—	2	—	—	—	2	—	—	—	AE 235
—	4	22	8	18	9	7	3	5	6	5	1	AE 236
3	2	1	—	4	2	3	2	2	1	2	2	AE 237
1	1	1	1	1	—	3	2	—	—	1	—	AE 238
3	2	15	6	11	3	6	1	2	1	3	1	AE 239
1	—	7	2	5	1	—	1	—	2	1	—	AE 240
1	1	1	1	—	—	2	—	—	—	—	—	AE 241
1	—	—	—	—	—	—	—	—	—	—	—	AE 242
—	—	—	—	1	—	1	—	—	—	—	—	AE 243
—	—	—	—	2	1	1	—	—	—	—	—	AE 244
—	—	—	—	1	—	—	—	—	—	—	—	AE 245
—	—	—	1	1	1	1	—	1	—	—	—	AE 246
—	—	—	—	—	1	2	—	—	—	—	—	AE 247
—	1	1	—	2	1	3	—	—	—	—	—	AE 248

Mortality (Continued)

Table 23. Deaths by Age and Sex According to Intermediate List of Mortality Causes with Rates per 100,000 Population, Saskatchewan, 1988 (Continued)

Cause of death		All ages			
		Both sexes		Male	Female
		Number	Rate		
AE 249	Misadventures during medical care	1	0.1	–	1
AE 250	Fall from one level to another	29	2.8	21	8
AE 251	Fall on same level	6	0.6	4	2
AE 252	Fracture, cause unspecified, and other and unspecified falls	72	6.9	27	45
AE 253	Accidents caused by fires and flames	20	1.9	15	5
AE 255	Accidental drowning and submersion	26	2.5	24	2
AE 256	Suffocation caused by inhalation or ingestion of food or other object	21	2.0	12	9
AE 258	Accidents caused by all other and unspecified firearms	4	0.4	4	–
AE 259	Accident caused by explosive material	2	0.2	2	–
AE 260	Accident caused by hot substance or object and exposure to radiation	2	0.2	2	–
AE 261	Accident caused by electric current	5	0.5	5	–
AE 262	All other accidents and late effects of accidental injury	42	4.0	35	7
AE 263	Drugs causing adverse effects	1	0.1	–	1
AE 264	Suicide by drugs, medicaments and biologicals in therapeutic use	12	1.1	4	8
AE 265	Suicide by other solid or liquid substances	2	0.2	2	–
AE 266	Suicide by gases and vapors	26	2.5	22	4
AE 267	Suicide by hanging, strangulation and suffocation	27	2.6	23	4
AE 268	Suicide by handgun	3	0.3	3	–
AE 269	Suicide by all other and unspecified firearms	63	6.0	60	3
AE 270	Suicide by all other means and late effects of self-inflicted injury	12	1.1	7	5
AE 272	Assault by all other and unspecified firearms	5	0.5	4	1
AE 273	Assault by cutting and piercing instrument	11	1.1	7	4
AE 274	Assault by other means and late effects of injury	5	0.5	5	–
AE 277	Injury undetermined whether accidentally or purposely inflicted from poisoning by drugs, medicaments and biologicals	1	0.1	–	1
AE 278	Injury undetermined whether accidentally or purposely inflicted from poisoning by other solid or liquid substances	2	0.2	2	–
AE 281	Injury undetermined whether accidentally or purposely inflicted from injury by all other means and late effects of injury	7	0.7	4	3

Mortality (Continued)

Age group												
Under 15		15-24		25-44		45-64		65-74		75+		
M	F	M	F	M	F	M	F	M	F	M	F	
—	—	—	—	—	1	—	—	—	—	—	—	AE 249
2	—	1	—	4	—	6	1	3	1	5	6	AE 250
1	—	—	—	—	—	—	—	—	—	3	2	AE 251
—	—	—	—	—	1	4	—	4	1	19	43	AE 252
4	3	—	—	7	—	1	1	1	1	2	—	AE 253
10	2	2	—	7	—	5	—	—	—	—	—	AE 255
1	—	1	1	1	2	3	1	2	4	4	1	AE 256
1	—	1	—	2	—	—	—	—	—	—	—	AE 258
—	—	—	—	2	—	—	—	—	—	—	—	AE 259
—	—	—	—	—	—	1	—	—	—	1	—	AE 260
—	—	2	—	2	—	1	—	—	—	—	—	AE 261
3	1	9	—	6	—	10	3	5	1	2	2	AE 262
—	—	—	—	—	—	—	—	—	1	—	—	AE 263
—	—	—	1	4	1	—	6	—	—	—	—	AE 264
—	—	—	—	—	—	1	—	—	—	1	—	AE 265
—	—	3	1	6	2	10	1	3	—	—	—	AE 266
3	—	11	—	5	2	1	1	1	1	2	—	AE 267
—	—	—	—	1	—	1	—	—	—	1	—	AE 268
1	—	13	1	30	2	10	—	3	—	3	—	AE 269
—	—	2	—	4	2	1	3	—	—	—	—	AE 270
—	—	—	—	3	—	1	1	—	—	—	—	AE 272
—	—	1	1	4	3	1	—	1	—	—	—	AE 273
1	—	—	—	1	—	3	—	—	—	—	—	AE 274
—	—	—	—	—	—	—	1	—	—	—	—	AE 277
—	—	—	—	2	—	—	—	—	—	—	—	AE 278
—	—	—	—	2	1	—	2	1	—	1	—	AE 281

Mortality (Continued)

Table 23. Deaths by Age and Sex According to Intermediate List of Mortality Causes with Rates per 100,000 Population, Saskatchewan, 1988 (Concluded)

There were no deaths in 1988 from the following

A 1	Cholera, typhoid, paratyphoid fevers
A 2	Shigellosis
A 3	Other salmonella infections, food poisoning
A 4	Amoebiasis
A 5	Intestinal infections, specified
A 6	Ill-defined intestinal infections
A 9	Brucellosis
A 10	Diptheria
A 11	Whooping cough
A 12	Streptococcal throat, scarlatina, erysipelas
A 14	Tetanus
A 17	Acute poliomyelitis
A 18	Smallpox
A 19	Measles
A 20	Rubella
A 21	Anthropod-borne encephalitis
A 24	Typhus and other rickettsioses
A 25	Malaria
A 26	Other arthropod-borne diseases
A 27	Cardiovascular syphilis
A 28	Neurosyphilis
A 29	All other syphilis
A 30	Gonococcal infections
A 31	Other venereal diseases
A 32	Mycoses
A 33	Helminthiases
A 34	Late effects of tuberculosis
A 87	Malignant neoplasm of female genital organs
A 90	Malignant neoplasm of breast and genitourinary system
A 91	Malignant neoplasm of all other and unspecified sites
A 97	Diseases of thymus gland
A 98	Disorders of adrenal glands
A 102	Nutritional marasmus
A 115	Drug dependence
A 117	Mental retardation
A 125	Disorders of eye and adnexa
A 126	Diseases of ear and mastoid
A 129	Disease of aortic valves
A 194	Acute glomerulonephritis
A 199	Urinary calculus
A 203	Disorders of breast
A 205	Ectopic pregnancy
A 206	Spontaneous abortion
A 207	Legally induced abortion
A 208	Illegally induced abortion
A 209	Pregnancy with abortive outcome
A 210	Hemorrhage of pregnancy and childbirth
A 211	Toxemia of pregnancy
A 212	Obstructed labor
A 213	Complication of puerperium
A 214	Direct obstetric causes
A 215	Indirect obstetric causes
A 216	Delivery in completely normal case
A 217	Infections of skin and subcutaneous tissue
A 224	Spina bifida
AE 254	Lightning
AE 257	Accidents caused by handgun
AE 271	Assault by handgun
AE 275	Legal execution
AE 276	Other legal intervention
AE 279	From injury by handgun
AE 280	Injury by unspecified firearms
AE 282	Injury from operations of war

Mortality (Continued)

Table 24. Accidental and Violent Deaths by External Cause and Internal Cause, Saskatchewan, 1988

External cause of death	Internal cause										
	BN47	BN48	BN49	BN50	BN51	BN52	BN53	BN54	BN55	BN56	Total
All causes of death	179	—	186	41	21	13	81	1	117	4	643
BE47 Transport accidents	82	—	93	11	—	2	2	—	30	—	220
BE48 Accidental poisoning	—	—	—	—	—	—	16	—	—	—	16
BE49 Misadventures during medical care	—	—	—	—	—	—	—	1	—	—	1
BE50 Accidental falls	85	—	20	—	—	—	—	—	2	—	107
BE51 Accidents caused by fires and flames	—	—	—	—	—	7	13	—	—	—	20
BE52 Other accidents, late effects	8	—	13	3	21	2	1	—	51	3	102
BE53 Effects of drugs and medication	—	—	—	—	—	—	1	—	—	—	1
BE54 Suicide and self-inflicted injury	3	—	44	24	—	2	40	—	31	1	145
BE55 Homicide and intentional injury	1	—	16	3	—	—	—	—	1	—	21
BE56 Other violence	—	—	—	—	—	—	8	—	2	—	10

Codes for internal cause of deaths

BN47 Fractures
BN48 Dislocations, sprains, strains
BN49 Intracranial, internal injury, nerves
BN50 Open wounds, injury to blood vessels
BN51 Effects/body entering through orifice
BN52 Burns
BN53 Poisonings and toxic agents
BN54 Complications/medical and surgical care
BN55 Other injuries
BN56 Effects of injury, poisons, toxicity

Mortality (Continued)

Table 25. Suicide by Province, 1983-1988

	1983		1984		1985		1986		1987		1988	
	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*
Canada	3,755	15.1	3,440	13.7	3,259	12.9	3,670	14.5	3,594	14.0	3,510	13.5
Newfoundand	36	6.2	39	6.7	23	4.0	23	4.0	28	4.9	44	7.7
Prince Edward Island	16	12.9	15	12.0	5	3.9	14	11.1	11	8.6	13	10.1
Nova Scotia	104	12.1	86	9.9	106	12.0	94	10.8	111	12.6	106	12.0
New Brunswick	100	14.2	90	12.6	86	12.0	96	13.5	75	10.5	108	15.1
Quebec	1,208	18.5	1,027	15.7	1,124	17.1	1,148	17.6	1,179	17.9	1,089	16.4
Ontario	1,139	12.9	1,101	12.3	1,038	11.4	1,130	12.4	1,069	11.5	1,045	11.1
Manitoba	165	15.8	134	12.7	127	11.9	153	14.3	170	15.8	154	14.2
Saskatchewan	148	14.9	136	13.5	133	13.0	138	13.7	132	13.0	145	14.3
Alberta	393	16.7	405	17.2	296	12.6	424	17.9	384	16.1	400	16.7
British Columbia	417	14.8	385	13.4	300	10.4	425	14.7	413	14.1	378	12.7
Yukon	8	35.9	5	22.9	8	35.1	10	42.5	7	28.7	7	27.7
Northwest Territories	21	43.4	17	34.4	13	25.5	15	28.7	15	29.0	21	40.5

** Rate per 100,000 population (Statistics Canada population estimates).*

Mortality (Concluded)

Table 26. Suicide by Age Group and Sex, Saskatchewan, 1961-1988

		Under 15		15-24		25-44		45-64		65-74		75+	
		M	F	M	F	M	F	M	F	M	F	M	F
1961	Number	—	—	7	1	17	3	35	8	15	2	6	—
	Rate*	—	—	10.5	1.6	14.5	2.7	40.1	10.2	51.1	8.3	33.3	—
1966	Number	2	—	4	6	21	—	24	7	9	—	3	—
	Rate*	1.2	—	5.2	8.1	19.2	—	25.9	8.1	33.8	—	15.0	—
1971	Number	1	—	12	1	14	3	32	8	3	—	4	—
	Rate*	0.7	—	14.3	1.2	13.8	3.1	33.9	8.7	10.9	—	19.9	—
1976	Number	—	—	25	13	34	9	22	9	3	6	7	1
	Rate*	—	—	27.4	14.9	32.3	8.9	23.7	9.7	9.9	19.6	37.1	4.5
1981	Number	2	2	39	15	42	13	25	6	11	5	8	3
	Rate*	1.8	1.9	41.9	16.5	33.6	10.8	27.3	6.5	32.6	13.8	39.4	11.7
1986	Number	1	—	29	3	33	17	31	6	5	4	8	1
	Rate*	0.8	—	34.1	3.6	22.5	12.0	34.7	6.7	14.2	9.9	35.4	3.3
1988	Number	4	—	29	3	50	9	24	11	7	1	7	—
	Rate*	3.2	—	36.5	3.9	33.0	6.1	27.1	12.4	19.8	2.4	29.3	—

** Rate per 100,000 population (Statistics Canada population estimates)*

Infant Mortality

Infant Mortality Rate

A favourable infant mortality rate is one of the indications of good general health conditions in an area.

One of the most important of the factors influencing the infant mortality rate is the proportion of births that take place in hospital or under proper medical care. Successful public health programs, availability of hospital facilities, high quality of medical care and high standards of living are some of the conditions which have assisted in creating a downward trend in infant mortality.

The risk of death during the first year of life is higher than at any other age except at very old ages. Not until age 65 for males and age 70 for females is there a greater probability of death than that of infancy — see Saskatchewan Life Table (Table 38 in this report).

Infant Deaths by Age and Sex

Of the total infant deaths, 37.1 per cent occurred during the first day of life and 40.7 per cent before the third day. 60.0 per cent occurred by the end of the first month.

In 1988 the male infant mortality rate was 9.2 per 1,000 male live births, and the female rate was 7.4 per 1,000 female live births.

Causes of Infant Deaths

In 1988 congenital anomalies caused 43 infant deaths (30.7 per cent of the total). Hypoxia, birth asphyxia, and respiratory conditions accounted for 27 infant deaths (19.3 per cent), and immaturity for 9 infant deaths (6.4 per cent). Influenza and pneumonia caused 6 infant deaths (4.3 per cent).

Neonatal Mortality (deaths under 4 weeks of age)

Of the 84 neonatal deaths in Saskatchewan in 1988, 52 occurred during the first day and 70 in the first week of life. Congenital anomalies were the leading causes of neonatal death, followed by hypoxia, asphyxia and respiratory conditions and immaturity.

Saskatchewan's 1988 neonatal mortality rate of 5.0 per 1,000 live births was slightly higher than the rate for all of Canada which was 4.6.

Perinatal Mortality

Deaths occurring before, and soon after, the natal or delivery period frequently have the same underlying causes. Perinatal deaths consist of stillbirths plus deaths under one week of age and the rate is expressed as a proportion of total births (live and stillborn). Under the definition of stillbirth adopted in 1961, in which the minimum gestational period was lowered from 28 to 20 weeks, there were 162 perinatal deaths with a rate of 9.6 per 1,000 total births in 1988, compared with a rate of 9.5 in 1987. Using the old definition of stillbirth (28 + weeks gestation) perinatal deaths would number 130 in 1988, giving a rate of 7.7 per 1,000 total births.

Infant Mortality (Continued)

Table 27. Distribution of Infant Deaths by Age, Saskatchewan, 1988

Age	Number	Per cent	Rate*	Cumulative		
				Number	Per cent	Rate*
Total	140	100.0	8.4	140	100.0	8.4
1st day	52	37.1	3.1	52	37.1	3.1
2nd day	4	2.9	0.2	56	40.0	3.3
3rd day	1	0.7	0.1	57	40.7	3.4
4th day	3	2.1	0.2	60	42.9	3.6
5th day	2	1.4	0.1	62	44.3	3.7
6th day	6	4.3	0.4	68	48.6	4.1
7th day	2	1.4	0.1	70	50.0	4.2
1st week	70	50.0	4.2	70	50.0	4.2
2nd week	4	2.9	0.2	74	52.9	4.4
3rd week	7	5.0	0.4	81	57.9	4.8
4th week	3	2.1	0.2	84	60.0	5.0
1st month	84	60.0	5.0	84	60.0	5.0
2nd month	7	5.0	0.4	91	65.0	5.4
3rd month	9	6.4	0.5	100	71.4	6.0
4th month	12	8.6	0.7	112	80.0	6.7
5th month	8	5.7	0.5	120	85.7	7.2
6th month	7	5.0	0.4	127	90.7	7.6
7th month	4	2.9	0.2	131	93.6	7.8
9th month	3	2.1	0.2	134	95.7	8.0
10th month	2	1.4	0.1	136	97.1	8.1
11th month	3	2.1	0.2	139	99.3	8.3
12th month	1	0.7	0.1	140	100.0	8.4

** Rate per 1,000 live births.*

Table 28. Infant Deaths by Sex and Age at Death, with Rates per 1,000 Live Births, Saskatchewan, 1988

Age of child	Number of infant deaths		Rate*		Per cent	
	Male	Female	Male	Female	Male	Female
Total	79	61	9.2	7.4	100.0	100.0
Under 1 day	24	17	2.8	2.1	30.4	27.9
1 day - 1 week	13	14	1.5	1.7	16.5	23.0
1 week - 1 month	11	5	1.3	0.6	13.9	8.2
1 month - 6 months	23	20	2.7	2.4	29.1	32.8
6 months - 1 year	8	5	0.9	0.6	10.1	8.2

** Rate per 1,000 live births.*

Infant Mortality (Continued)

Table 29. Infant Deaths by Selected Causes with Rates per 1,000 Live Births by Age at Death, Saskatchewan, 1988

Cause of death	Total under 1 year		Total under 28 days		Under 1 day		1 day		2 days		3 days		4 days	
	Number	Rate	Number	Rate	M	F	M	F	M	F	M	F	M	F
All infant deaths	140	8 4	84	5 0	24	17	3	8	3	1	—	1	1	2
Pneumonia (480-486)	6	0 4	—	—	—	—	—	—	—	—	—	—	—	—
Congenital anomalies														
Brain, spine, nervous system (740-742)	6	0 4	4	0 2	3	—	—	—	—	—	—	1	—	—
Heart (746)	14	0 8	9	0 5	1	—	—	1	—	—	—	—	1	1
Other circulatory system (747)	2	0 1	2	0 1	1	—	—	—	—	—	—	—	—	1
Respiratory system (748)	4	0 2	4	0 2	2	1	—	1	—	—	—	—	—	—
Digestive system (749-751)	1	0 1	—	—	—	—	—	—	—	—	—	—	—	—
Urinary system (753)	1	0 1	1	0 1	—	1	—	—	—	—	—	—	—	—
Other and unspecified (759)	9	0 5	8	0 5	5	3	—	—	—	—	—	—	—	—
Certain causes of perinatal mortality														
Condition of placenta, cord, membrane (762)	2	0 1	2	0 1	1	—	—	—	—	—	—	—	—	—
Birth Injury (763)	1	0 1	1	0 1	—	1	—	—	—	—	—	—	—	—
Immaturity (765)	9	0 5	9	0 5	3	5	—	1	—	—	—	—	—	—
Other complications (779)	1	0 1	1	0 1	—	1	—	—	—	—	—	—	—	—
Symptoms, ill-defined conditions (780-799)	26	1 6	4	0 2	—	—	—	—	—	1	—	—	—	—
All other causes	58	3 5	39	2 3	8	5	3	5	3	—	—	—	—	—

Infant Mortality (Continued)

5 days		6 days		7-13 days		14-20 days		21-27 days		28 days under 2 mths		2 months		3 months		4 months		5 months		6-8 months		9-11 months	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	F	M	F	M	F	M
2	—	4	2	4	2	5	1	2	2	3	4	6	3	6	6	6	2	2	5	6	1	2	4
—	—	—	—	—	—	—	—	—	—	—	1	—	—	1	2	1	—	—	—	—	1	—	—
—	—	—	—	—	—	—	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—
—	—	2	—	1	—	1	—	1	—	—	—	—	1	1	—	—	—	1	—	1	—	—	1
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—
—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	1	1	—	—	1	—	—	5	1	4	1	3	2	—	3	2	—	—	1
2	—	2	2	2	1	3	1	1	1	2	3	—	1	—	3	2	—	1	1	3	—	2	1

Infant Mortality (Continued)

Table 30. Infant Deaths from Specific Causes by Sex with Rates per 1,000 Live Births, Saskatchewan, 1988

Cause of death	Total	Sex	
		Male	Female
	Number		
All infant deaths	140	79	61
Infectious diseases (001-003, 101-139)	1	1	—
Influenza, pneumonia (480-487)	6	2	4
Congenital anomalies (740-759)	43	26	17
Certain causes of perinatal mortality			
Birth trauma, injury (763,767)	4	2	2
Hypoxia, asphyxia, respiratory (768-770)	27	17	10
Immaturity (765)	9	3	6
Other causes (remainder 760-779)	12	8	4
Other and ill-defined causes	38	20	18
	Rate per 1,000 live births		
All infant deaths	8.4	9.2	7.4
Infectious diseases (001-003, 101-139)	0.1	0.1	—
Influenza, pneumonia (480-487)	0.4	0.2	0.5
Congenital anomalies (740-759)	2.6	3.0	2.1
Certain causes of perinatal mortality			
Birth trauma, injury (763,767)	0.2	0.2	0.2
Hypoxia, asphyxia, respiratory (768-770)	1.6	2.0	1.2
Immaturity (765)	0.5	0.4	0.7
Other causes (remainder 760-779)	0.7	0.9	0.5
Other and ill-defined causes	2.3	2.3	2.2

Infant Mortality (Concluded)

Table 31. Infant Deaths from Specific Causes by Age at Death with Rates per 1,000 Live Births, Saskatchewan, 1988

Cause of death	Total	0-6 days	7-27 days	28 days to 12 months
	Number			
All infant deaths	140	68	16	56
Infectious diseases (001-003, 101-139)	1	—	—	1
Influenza, pneumonia (480-487)	6	—	—	6
Congenital anomalies (740-759)	43	28	4	11
Certain causes of perinatal mortality				
Birth trauma, injury (763,767)	4	4	—	—
Hypoxia, asphyxia, respiratory (768-770)	27	15	6	6
Immaturity (765)	9	9	—	—
Other causes (remainder 760-779)	12	11	1	—
Other and ill-defined causes	38	1	5	32
	Rate per 1,000 live births			
All infant deaths	8.4	4.1	1.0	3.3
Infectious diseases (001-003, 101-139)	0.1	—	—	0.1
Influenza, pneumonia (480-487)	0.4	—	—	0.4
Congenital anomalies (740-759)	2.6	1.7	0.2	0.7
Certain causes of perinatal mortality				
Birth trauma, injury (763,767)	0.2	0.2	—	—
Hypoxia, asphyxia, respiratory (768-770)	1.6	0.9	0.4	0.4
Immaturity (765)	0.5	0.5	—	—
Other causes (remainder 760-779)	0.7	0.7	0.1	—
Other and ill-defined causes	2.3	0.1	0.3	1.9

Marriages and Divorces

Rate of Marriages

There were 6,767 marriages in Saskatchewan in 1988 giving a marriage rate per 1,000 population of 6.7. For Canada as a whole, the rate increased slightly, from 7.1 in 1987 to 7.2 in 1988.

July was the most favoured month for marriages in 1988 followed by August and June. The smallest number of marriages occurred in January.

The following table shows the distribution of marriage registrations by month.

Month	*Number*
January	183
February	252
March	232
April	467
May	558
June	788
July	1,383
August	882
September	621
October	639
November	403
December	359

Previous Marital Status and Age at Marriage

In 1988 in Saskatchewan, 70.6 per cent of all marriages were between persons who had not been previously married.

Of brides, 8.6 per cent were age 19 or less, whereas 1.9 per cent of bridegrooms fell into this category. Nearly 34.5 per cent of all bridegrooms and 52.2 per cent of all brides were 24 years or less. The average age of grooms was 29.5 and brides 26.9.

The following table gives a comparison of the average age of bridegrooms and brides for the years 1975-1988.

Average Age at Time of Marriage in Years

	Bridegroom	*Bride*
1975	25.6	23.1
1976	25.8	23.2
1977	26.7	23.9
1978	26.3	23.6
1979	26.4	23.8
1980	26.7	24.0
1981	27.1	24.4
1982	27.1	24.4
1983	27.6	24.9
1984	28.0	25.3
1985	28.1	25.4
1986	28.5	25.9
1987	29.3	26.6
1988	29.5	26.9

Birth Place and Religious Denomination

The number of Saskatchewan born brides was 5,376 or 79.4 per cent of total brides while Saskatchewan born grooms numbered 5,044 or 74.5 per cent; 93.8 per cent of all grooms and 94.7 per cent of all brides were born in Canada.

Both parties were of the same religious denomination in 44.6 per cent of all marriages recorded in Saskatchewan in 1988.

Divorces and Annulments

There were 2,442 divorces and annulments in Saskatchewan in 1988, a decrease of 467 from the previous year. The rate of divorces and annulments per 100,000 population in 1988 was 242 compared to 287 for 1987.

The ratio of divorces and annulments to marriages was 1:2 in 1987 and 1:2 in 1988.

Marriages and Divorces (Continued)

Table 32. Divorces and Annulments, Ratio to Marriages, and Rate per 100,000 Population, Saskatchewan, 1982-1988

Item	1982	1983	1984	1985	1986	1987	1988
Number of divorces and annulments	1,815	2,000	1,988	1,927	2,449†	2,909	2,442
Number of marriages	7,491	7,504	7,213	7,132	6,820	6,853	6,767
Ratio of divorces and annulments to marriages	1:4	1:4	1:4	1:4	1:3	1:2	1:3
Rate of divorces and annulments per 100,000 population	185	202	198	189	243†	287	242

† *Revised figure.*

Source: Divorce figures from Statistics Canada publication "Vital Statistics, Volume II Marriages and Divorces", 84-205.

Table 33. Marriages by Previous Marital Status of Bridegroom and Bride, Saskatchewan, 1988

Status of bridegroom	Total	Status of bride		
		Single	Widow	Divorced
Total	6,767	5,375	250	1,142
Single	5,385	4,775	60	550
Widower	186	29	99	58
Divorced	1,196	571	91	534

Table 34. Bridegrooms and Brides by Age and Previous Marital Status, Saskatchewan, 1988

Age group	Bridegrooms				Brides			
	Total	Single	Widower	Divorced	Total	Single	Widow	Divorced
Total	6,767	5,385	186	1,196	6,767	5,375	250	1,142
Under 20	127	127	—	—	584	583	—	1
20-24	2,208	2,190	—	18	2,951	2,873	5	73
25-29	2,212	2,059	1	152	1,690	1,395	9	286
30-34	959	671	4	284	689	359	19	311
35-39	473	189	14	270	315	103	25	187
40-44	248	62	6	180	166	28	15	123
45-49	147	24	8	115	119	13	26	80
50-54	118	22	17	79	83	4	36	43
55-59	94	15	28	51	49	5	27	17
60-64	63	11	25	27	46	7	30	9
65-69	52	10	32	10	38	2	28	8
70-74	37	3	28	6	26	2	21	3
75+	29	2	23	4	11	1	9	1
Average age	29.5	26.4	61.0	39.0	26.9	24.0	52.4	34.8
Median age	26.0	25.0	63.0	37.0	24.0	23.0	53.0	33.0

Average and median ages were calculated using single year age groups.

Marriages and Divorces (Concluded)

Table 35. Marriages by Religious Denomination of Bridegroom and Bride, Saskatchewan, 1988

Denomination	Number			Per cent		
	Both parties*	Bridegroom	Bride	Both parties*	Bridegroom	Bride
Total	3 017	6 767	6 767	44 6	100 0	100 0
Baptists	47	124	143	0 7	1 8	2 1
Lutherans	135	519	594	2 0	7 7	8 8
Mennonites	88	178	161	1 3	2 6	2 4
Presbyterians	12	62	71	0 2	0 9	1 0
Roman Catholics	1 033	2 082	2 142	15 3	30 8	31 7
United Church	739	1 584	1 606	10 9	23 4	23 7
All other religions	630	1 300	1 229	9 3	19 2	18 2
No religion	176	393	312	2 6	5 8	4 6
Unspecified or unknown	157	525	509	2 3	7 8	7 5

* *These figures and percentages represent marriages in which both the bridegroom and bride were of the same religious denomination. The difference between this figure and the total number of marriages represents the proportion in which bridegroom and bride were of different religious denominations. Includes Eastern Orthodox Churches and Doukhobors.*

Table 36. Marriages by Birthplace of Bridegroom and Bride, Saskatchewan, 1988

Birthplace of bridegroom	Birthplace of bride												
	Total	Sask	Alta	B C	Man	Ont	Other prov	U S	Asia	Europe	Africa	Other	Not stated
Total	6 767	5 376	292	132	286	202	123	68	112	145	9	22	–
Saskatchewan	5 044	4 162	213	85	202	140	71	48	26	88	3	6	–
Alberta	353	256	33	14	16	8	10	4	1	8	1	2	–
British Columbia	147	119	7	9	5	3	1	–	1	1	–	1	–
Manitoba	327	250	16	7	25	11	2	4	4	7	–	1	–
Ontario	305	224	11	7	17	21	12	4	1	6	–	2	–
Other provinces	173	123	2	5	7	12	21	1	–	2	–	–	–
United States	77	58	2	2	5	1	1	2	–	5	1	–	–
Asia	108	26	1	–	1	1	1	2	71	5	–	–	–
Europe	182	131	6	1	8	5	3	2	5	20	1	–	–
Africa	12	4	–	1	–	–	1	1	1	1	3	–	–
Other	38	22	1	1	–	–	–	–	2	2	–	10	–
Not stated	1	1	–	–	–	–	–	–	–	–	–	–	–

Life Expectancy

A life expectancy table is, in effect, the history of mortality of 100,000 male babies and of 100,000 female babies born at the same time. Life expectancy figures provide a graphic picture of the extent to which the saving of lives has gradually prolonged the average expectation of life, and are fairly good mirrors reflecting the general health and survival conditions at the time of their compiling.

According to the Saskatchewan life table compiled on the basis of the 1986 census, the life expectancy at birth reached an all time peak for females, 80.47 years, and for males, 73.66 years. The gain in life expectancy is greater in females. A sharp rise in the probability of death begins at age 55 for males and at 65 for females, the decrease in expectancy being faster for males than females.

Table 37. Life Expectancy, Saskatchewan, 1941, 1961, 1986

	Life expectancy			Gain or loss in life expectancy	
Age	1941	1961	1986	1961 over 1941	1986 over 1961
	Males				
At birth	65.43	70.27	73.66	4.84	3.39
20	51.28	53.49	55.28	2.21	1.79
40	33.32	34.99	36.70	1.67	1.71
60	16.82	18.10	19.62	1.28	1.52
80	5.76	6.31	7.59	0.55	1.28
	Females				
At birth	68.19	75.93	80.47	7.74	4.54
20	53.08	58.35	61.64	5.27	3.29
40	34.96	39.09	42.28	4.13	3.19
60	18.26	21.09	24.21	2.83	3.12
80	6.38	7.29	9.40	0.91	2.11

Note: Source of figures for 1941: Life Tables for Canada and Regions, 1941 and 1931, D.B.S. Ottawa 1947. These figures have been calculated for the prairie provinces. The figures for 1961 have been calculated for Saskatchewan by the Department of Health. The figures for 1986 are taken from the Statistics Canada publication, Life Tables, Canada and Provinces, 1985-1987.

Life Expectancy (Continued)

Table 38. Life Table for Saskatchewan in Shortened Form, 1986 – Males

Age	Number of survivors l_x	Number of deaths d_x	Probability of death before reaching next birthday q_x	Life expectancy e_x^o
At birth	100,000	1,061	.01061	73.66
1 year	98,939	78	.00079	73.45
2 years	98,861	71	.00072	72.51
3 years	98,790	68	.00069	71.56
4 years	98,722	57	.00058	70.61
5 years	98,665	43	.00043	69.65
10 years	98,530	28	.00028	64.74
15 years	98,286	100	.00101	59.90
20 years	97,625	167	.00171	55.28
25 years	96,779	150	.00155	50.75
30 years	96,098	128	.00134	46.09
35 years	95,440	139	.00146	41.39
40 years	94,668	189	.00199	36.70
45 years	93,525	303	.00324	32.12
50 years	91,657	496	.00541	27.72
55 years	88,697	739	.00833	23.56
60 years	84,386	1,072	.01270	19.62
65 years	78,073	1,590	.02037	16.00
70 years	68,912	2,179	.03163	12.77
75 years	56,750	2,822	.04972	9.95
80 years	41,829	3,090	.07388	7.59
85 years	26,498	2,942	.11100	5.55

Life Expectancy (Concluded)

Table 38. Life Table for Saskatchewan in Shortened Form, 1986 – Females (Concluded)

Age	Number of survivors l_x	Number of deaths d_x	Probability of death before reaching next birthday q_x	Life expectancy e_x^o
At birth	100,000	869	.00869	80.47
1 year	99,131	55	.00055	80.17
2 years	94,076	35	.00035	79.21
3 years	99,041	28	.00028	78.24
4 years	99,013	23	.00024	77.26
5 years	98,990	23	.00023	76.28
10 years	98,875	23	.00023	71.37
15 years	98,731	46	.00046	66.47
20 years	98,464	53	.00054	61.64
25 years	98,212	52	.00053	56.79
30 years	97,938	58	.00059	51.94
35 years	97,632	67	.00069	47.10
40 years	97,237	105	.00109	42.28
45 years	96,576	177	.00183	37.55
50 years	95,493	287	.00300	32.95
55 years	93,780	430	.00459	28.50
60 years	91,256	633	.00694	24.21
65 years	87,605	870	.00994	20.11
70 years	82,549	1,273	.01542	16.18
75 years	74,908	1,956	.02611	12.56
80 years	63,175	2,989	.04731	9.40
85 years	46,315	3,806	.08218	6.87